



BTL-4000

Electrotherapy

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ELECTROTHERAPY

1 ACHILLODYNTIA

Program	E-0011
Therapy parameters	hyaluronidase iontophoresis current: galvanic type: interrupted 8000 Hz cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional at the Achilles tendon - anode (active - hyaluronidase solution), cathode (indifferent - cathode protective solution), size of electrodes 4x6 cm
Length of application	30 min.
Frequency of treatments	2 - 3x per week
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	analgesic, trophic, antiedematous
Note	anode solution (components of hyaluronidase solution): solution 1 (acetate puffer): = natrii acetici - 11.5 g = acidi acetici gracialis - 0.95 g = aquae destillatae - ad 1000 ml solution 2 (hyaluronidase): = dissolve 1 vial of hyaluronidase in 1 vial of redistilled water (5)

2 ACHILLODYNTIA 2

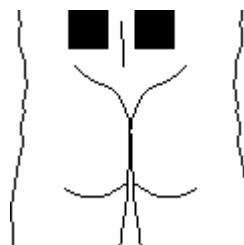
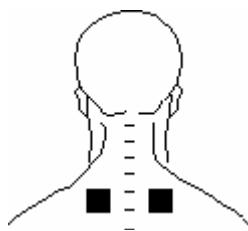
Program	E-0169
Therapy parameters	diodynamic current CP-ISO current: diodynamics type: CP-ISO cc/cv mode: cc polarity: positive revers. with interrupt. base: 20 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	transregional at the achilles tendon and its calcaneal insertion; size of electrodes 4x6 cm
Length of application	8 min. (positive reversal with interruption)
Frequency of treatments	daily
Number of treatments	5
Intensity	from below threshold motor level to threshold motor level (according to the patient's endurance)
Effect	analgesic, antiedematous (6)

3 ACROCYANOSIS

Program	E-0001
Therapy parameters	longitudinal galvanization current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	cathodes (6x8 cm) of individual channels upon foot soles, both anodes (6x8 cm) paravertebrally at the level of L3-S1 segments
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	Use protective solutions. Use both channels of the equipment. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (2)

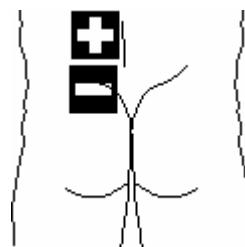
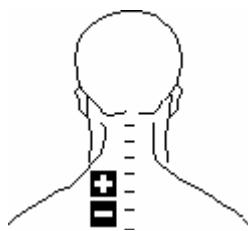
4 ACROCYANOSIS 2

Program	E-0001
Therapy parameters	<p>paravertebral resting galvanization</p> <p>current: galvanic</p> <p>type: continuous</p> <p>cc/cv mode: cc</p> <p>polarity: positive</p> <p>contact check: yes</p>
Position of electrodes	anode 4x6 cm at the affected side paravertebrally in the C5-Th1 area for upper extremities and L3-S1 area for lower extremities, cathode 4x6 cm counterlaterally paravertebrally towards anode
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	<p>Use protective solutions.</p> <p>Composition of the protective solutions:</p> <p>1) anode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= natrii hydroxydati - 1.0 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>2) cathode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= acidi hydrochlorici diluti - 6.5 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>(3)</p>



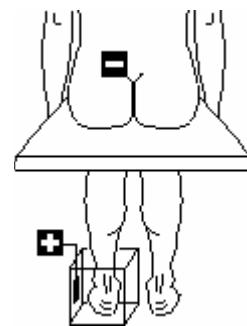
5 ACROCYANOSIS 3

Program	E-0001
Therapy parameters	<p>segmental resting galvanization</p> <p>current: galvanic</p> <p>type: continuous</p> <p>cc/cv mode: cc</p> <p>polarity: positive</p> <p>contact check: yes</p>
Position of electrodes	anode above and cathode below the outflow of segments which innervate the affected extremity (in the C5-Th1 area for upper limbs and the L3-S1 area for lower limbs)
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	<p>Use protective solutions.</p> <p>Composition of the protective solutions:</p> <p>1) anode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= natrii hydroxydati - 1.0 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>2) cathode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= acidi hydrochlorici diluti - 6.5 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>(526)</p>

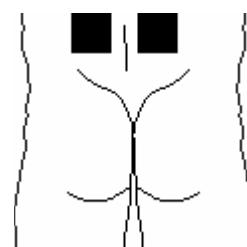


6 ALGODYSTROPHIC SYNDROME - LOWER LIMB

Program	E-0111 diodynamic current DF
Therapy parameters	current: diodynamics type: DF cc/cv mode: cc polarity: positive base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes cathode 8x12 cm paravertebral in the L3-S1 area, anode in the form of isothermal water bath on the affected lower extremity
Position of electrodes	
Length of application	max. 6 min
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. If using cathode protective solution it is possible to extend the time of application to 10 - 12 min. Composition of the protective solution: cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (159)

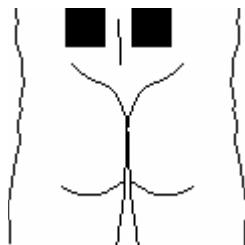
**7 ALGODYSTROPHIC SYNDROME - LOWER LIMB 2**

Program	E-0118 diodynamic current DF with pole reversal
Therapy parameters	current: diodynamics type: DF cc/cv mode: cc polarity: positive revers. with interrupt. base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes 8x12 cm paravertebrally in the L3-S1 area
Length of application	10 min., reversal with interruption in the middle of therapy
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (160)

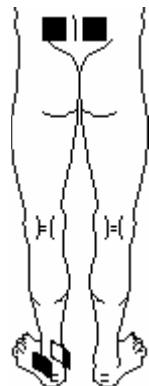


8 ALGODYSTROPHIC SYNDROME - LOWER LIMB 3

Program	E-0940
Therapy parameters	2-pole interference 4 kHz current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes plate electrodes 8x12 cm paravertebrally in the L3-S1 area
Position of electrodes	
Length of application	12 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (161)

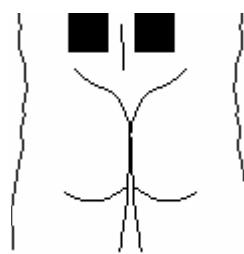
**9 ALGODYSTROPHIC SYNDROME - LOWER LIMB 4**

Program	E-1832
Therapy parameters	TENS 100 μ s current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 100 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no 1. circuit: plate electrodes 4x6 cm paravertebral in the L3-S1 area 2. circuit: plate electrodes 4x6 cm transregional at the acrum in the point of affection
Position of electrodes	
Length of application	20 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	analgesic
Note	Keep the above-threshold sensitive intensity during the whole application. Application at the acrum use only at mild stages of algodystrophia. Use 2 channels or channel division (A+B). (162)

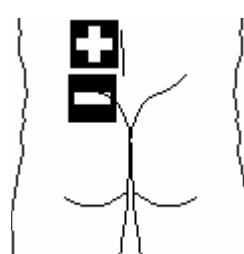


10 ALGODYSTROPHIC SYNDROME - LOWER LIMB 5

Program E-0001
 Therapy parameters paravertebral resting galvanization
 current: galvanic
 type: continuous
 cc/cv mode: cc
 polarity: positive
 contact check: yes
 Position of electrodes anode 4x6 cm at the affected side
 paravertebrally in the L3-S1 area, cathode 4x6 cm counterlaterally paravertebrally towards anode
 Length of application 20 - 40 min., step 5 min.
 Frequency of treatments 2 - 3x per week
 Number of treatments 12
 Intensity max. at threshold sensitivity
 Current density max. 0.1 mA/cm²
 Effect trophic, analgesic
 Note Use protective solutions.
 Composition of the protective solutions:
 1) anode protective solution:
 = natrii chlorati - 5.0 g
 = natrii hydroxydati - 1.0 g
 = aquae destillatae - ad 1000 ml
 2) cathode protective solution:
 = natrii chlorati - 5.0 g
 = acidi hydrochlorici diluti - 6.5 g
 = aquae destillatae - ad 1000 ml
 (163)

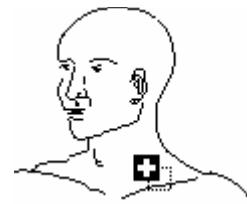
**11 ALGODYSTROPHIC SYNDROME - LOWER LIMB 6**

Program E-0001
 Therapy parameters segmental resting galvanization
 current: galvanic
 type: continuous
 cc/cv mode: cc
 polarity: positive
 contact check: yes
 Position of electrodes anode above and cathode below the outflow of segments which innervate the affected extremity (L3-S1)
 Length of application 20 - 40 min., step 5 min.
 Frequency of treatments 2 - 3x per week
 Number of treatments 12
 Intensity max. at threshold sensitivity
 Current density max. 0.1 mA/cm²
 Effect trophic, analgesic
 Note Use protective solutions.
 Composition of the protective solutions:
 1) anode protective solution:
 = natrii chlorati - 5.0 g
 = natrii hydroxydati - 1.0 g
 = aquae destillatae - ad 1000 ml
 2) cathode protective solution:
 = natrii chlorati - 5.0 g
 = acidi hydrochlorici diluti - 6.5 g
 = aquae destillatae - ad 1000 ml
 (527)

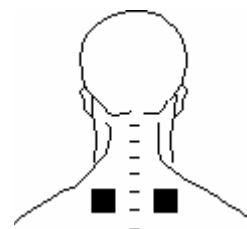


12 ALGODYSTROPHIC SYNDROME - UPPER LIMB

Program	E-0111 diodynamic current DF
Therapy parameters	current: diodynamics type: DF cc/cv mode: cc polarity: positive base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes cathode 4x6 cm above the ganglion stellatum max. 6 min.
Position of electrodes	cathode 4x6 cm above the ganglion stellatum
Length of application	max. 6 min.
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. If using cathode protective solution it is possible to extend the time of application to 10 - 12 min. Make sure that the cathode is not placed above the larynx or sinus caroticus. Composition of the protective solution: cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (165)

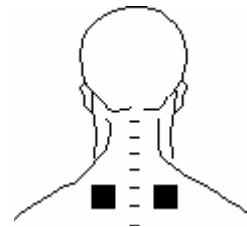
**13 ALGODYSTROPHIC SYNDROME - UPPER LIMB 2**

Program	E-0118 diodynamic current DF with pole reversal
Therapy parameters	current: diodynamics type: DF cc/cv mode: cc polarity: positive revers. with interrupt. base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes plate electrodes 6x8 cm paravertebrally in the C5-Th1 area
Position of electrodes	plate electrodes 6x8 cm paravertebrally in the C5-Th1 area
Length of application	10 min., reversal with interruption in the middle of treatment
Frequency of treatments	first 5 daily, then 3x per week
Number of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Intensity	above threshold sensitivity
Effect	trophic, analgesic
Note	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (166)

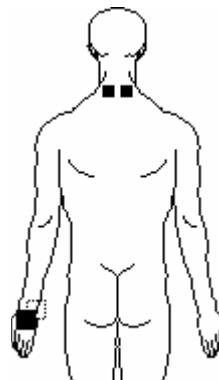


14 ALGODYSTROPHIC SYNDROME - UPPER LIMB 3

Program	E-0940
Therapy parameters	2-pole interference 4 kHz current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes plate electrodes 6x8 cm paravertebrally in the C5-Th1 area 12 min. first 5 daily, then 3x per week 10 - 20 (long-term application 3 - 5 weeks according to the patient's state) above threshold sensitivity trophic, analgesic Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy. (167)
Position of electrodes	
Length of application	
Frequency of treatments	
Number of treatments	
Intensity	
Effect	
Note	

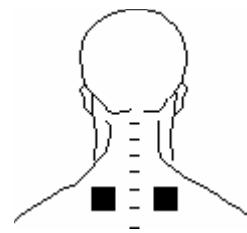
**15 ALGODYSTROPHIC SYNDROME - UPPER LIMB 4**

Program	E-1832
Therapy parameters	TENS 100 μ s current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 100 μ s pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no 1. circuit: plate electrodes 4x6 cm paravertebral in the C5-Th1 area 2. circuit: plate electrodes 4x6 cm transregional at the acrum in the point of affection 20 min. first 5 daily, then 3x per week 10 - 20 (long-term application 3 - 5 weeks according to the patient's state) above threshold sensitivity analgesic Keep the above-threshold-sensitive intensity during the whole application. Application at the acrum use only at mild stages of algodystrophia. Use 2 channels or channel division (A+B). (168)
Position of electrodes	
Length of application	
Frequency of treatments	
Number of treatments	
Intensity	
Effect	
Note	

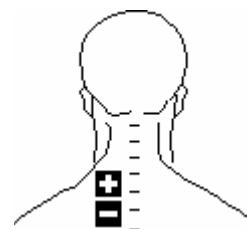


16 ALGODYSTROPHIC SYNDROME - UPPER LIMB 5

Program	E-0001
Therapy parameters	<p>paravertebral resting galvanization</p> <p>current: galvanic</p> <p>type: continuous</p> <p>cc/cv mode: cc</p> <p>polarity: positive</p> <p>contact check: yes</p>
Position of electrodes	<p>anode 4x6 cm at the affected side</p> <p>paravertebrally in the C5-Th1 area, cathode 4x6 cm counterlaterally paravertebrally towards anode</p>
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic, analgesic
Note	<p>Use protective solutions.</p> <p>Composition of the protective solutions:</p> <p>1) anode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= natrii hydroxydati - 1.0 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>2) cathode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= acidi hydrochlorici diluti - 6.5 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>(169)</p>

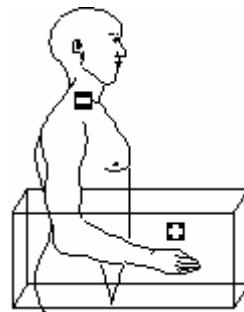
**17 ALGODYSTROPHIC SYNDROME - UPPER LIMB 6**

Program	E-0001
Therapy parameters	<p>segmental resting galvanization</p> <p>current: galvanic</p> <p>type: continuous</p> <p>cc/cv mode: cc</p> <p>polarity: positive</p> <p>contact check: yes</p>
Position of electrodes	anode above and cathode below the outflow of segments which innervate the affected extremity (C5-Th1)
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic, analgesic
Note	<p>Use protective solutions.</p> <p>Composition of the protective solutions:</p> <p>1) anode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= natrii hydroxydati - 1.0 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>2) cathode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= acidi hydrochlorici diluti - 6.5 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>(528)</p>



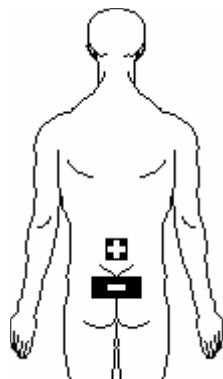
18 ALGODYSTROPHIC SYNDROME - UPPER LIMB 7

Program	E-0111 diodynamic current DF
Therapy parameters	current: diodynamics type: DF cc/cv mode: cc polarity: positive base: no base basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	cathode 4x6 cm above the ganglion stellatum, anode in the form of isothermal water bath on the affected upper extremity max. 6 min.
Length of application	first 5 daily, then 3x per week
Frequency of treatments	10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
Number of treatments	above threshold sensitivity trophic, analgesic
Intensity	Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy.
Effect	If using cathode protective solution it is possible to extend the time of application to 10 - 12 min. Make sure that the cathode is not placed above the larynx or sinus caroticus.
Note	Composition of the protective solution: cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (170)



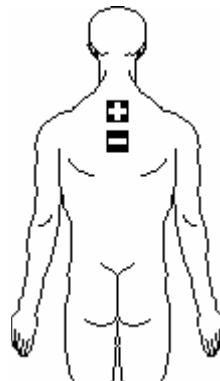
19 ARTERITIS (LOWER LIMB)

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 4.: cranial anode 8x12 cm (50 - 100 cm ²) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (8)



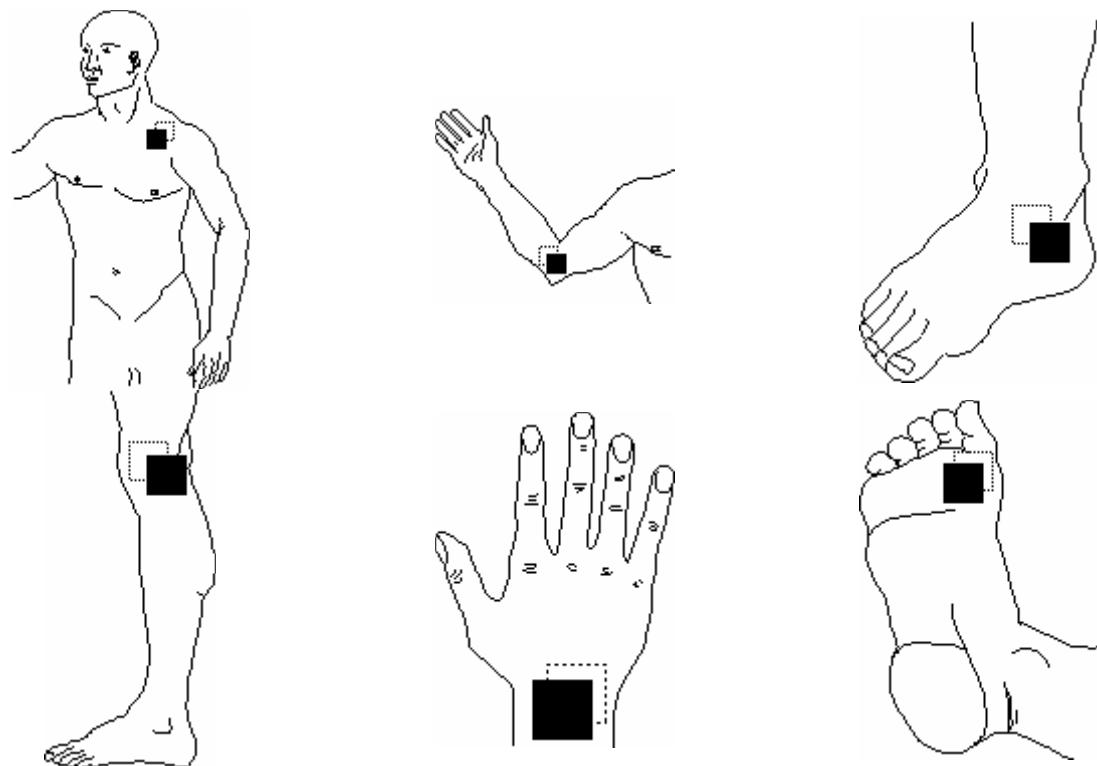
20 ARTERITIS (UPPER LIMB)

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 2.: cranial anode 8x12 cm (50 - 100 cm ²) at the lower cervical spine (C5-Th1), caudal cathode 8x12 cm at the upper thoracic spine (Th3-Th5)
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (10)



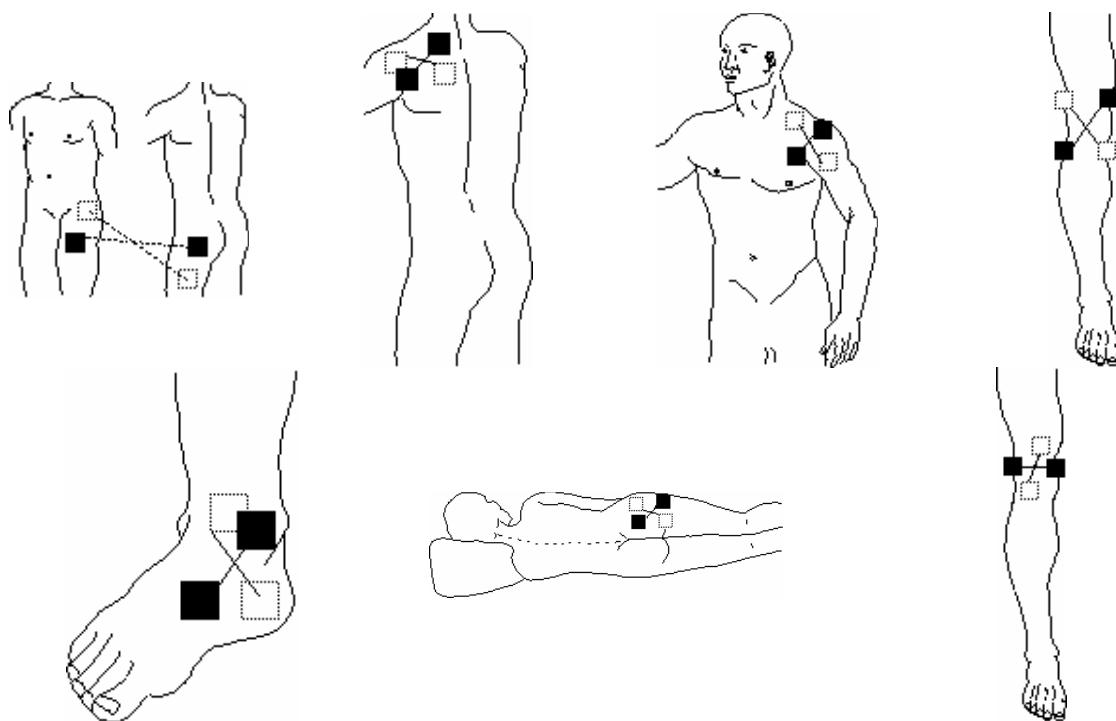
21 ARTHRITIS RHEUMATICA

Program	E-2749
Therapy parameters	2-pole interference 10 kHz current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 150 Hz spectrum: 50 Hz sweep: continuous rise: 1 s surge: 6 s fall: 1 s pause: 6 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint transregional in the current path
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	from above threshold sensitivity to threshold motor level (muscle fasciculation) for AMF
Effect	myorelaxation, analgesic, trophic
Note	It is also possible to use plate electrodes. (12)



22 ARTHRITIS RHEUMATICA 2

Program	E-2090
Therapy parameters	isoplanar interference 4 kHz current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 200 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection 10 - 15 min., step 1 min. first 3 daily, then every other day 6
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	at threshold motor level at the beginning of treatment, do not keep
Effect	myorelaxation, analgesic
Note	It is also possible to use plate electrodes. (13)



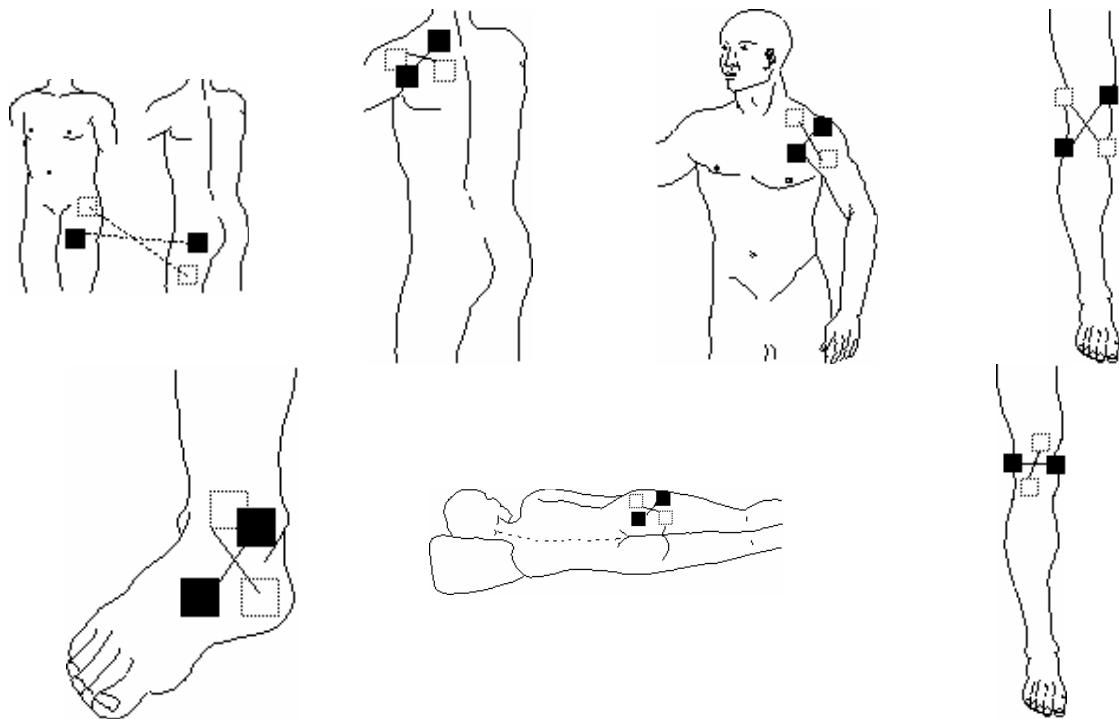
23 ARTHROSIS ACUTA

Program E-2165
 isoplanar interference 10 kHz

Therapy parameters
 current: special interference
 type: isoplanar
 cc/cv mode: cc
 polarity: positive
 carrier frequency: 10000 Hz
 AMF: 90 Hz
 spectrum: 20 Hz
 sweep: continuous
 rise: 6 s
 surge: 0 s
 fall: 6 s
 pause: 0 s
 sweep time: 12 s
 contact check: yes
 suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
 15 min., step 1 min.

Position of electrodes
 Length of application
 Frequency of treatments
 Number of treatments
 Intensity
 Effect
 Note

daily
 6
 above threshold sensitivity
 analgesic
 It is also possible to use plate electrodes.
 (15)



24 ARTHROSIS ACUTA 2

Program

E-1905

Position of electrodes

diadynamic current DF + LP

Length of application

plate electrodes of the size corresponding to the treated joint, transregional

Frequency of treatments

6 min. (DF 1 min. + LP 5 min., with interruption)

Number of treatments

first 3 daily, then every other day

Intensity

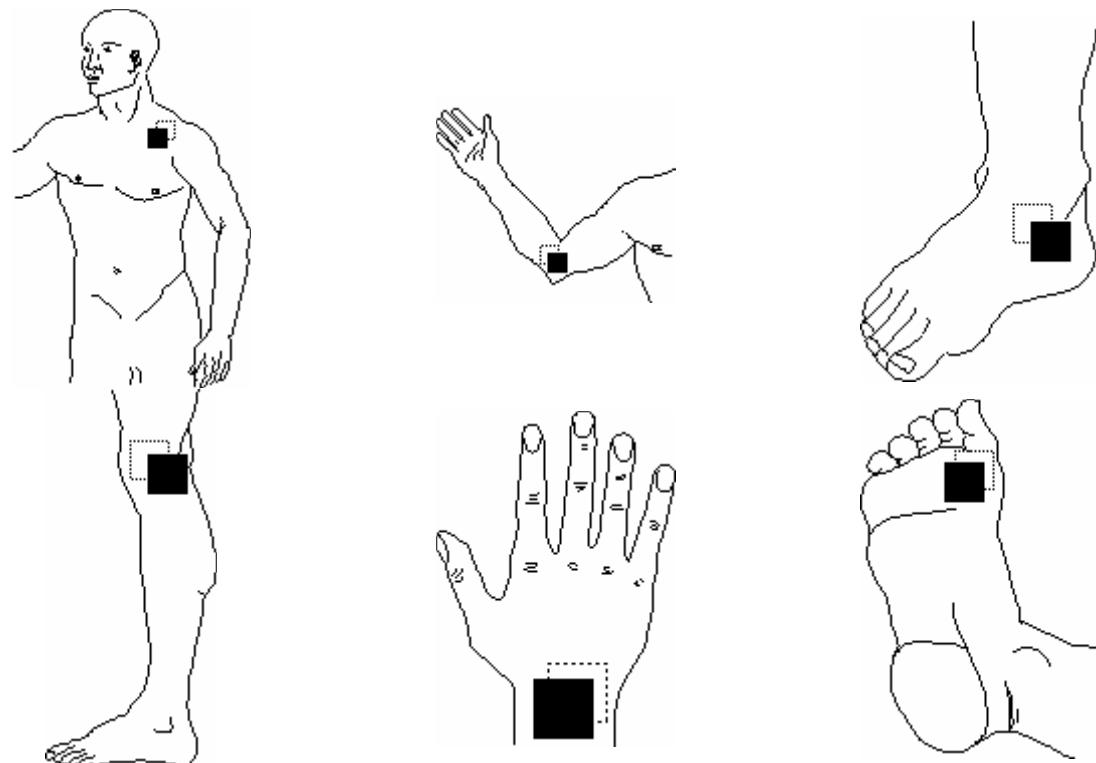
6

Effect

above threshold sensitivity for DF and for the 100 Hz component of LP current

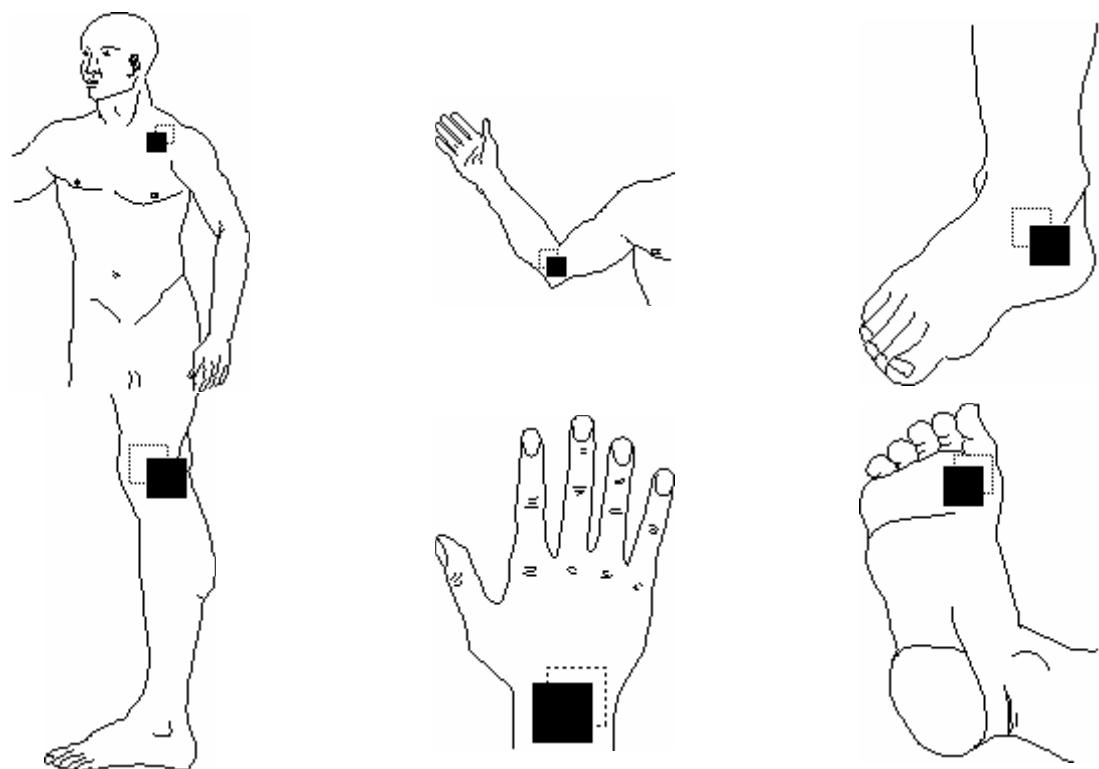
analgesic

(16)



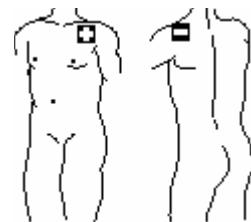
25 ARTHROSIS ACUTA 3

Program E-4515
TENS 30 μ s
Therapy parameters current: TENS
type: asymmetric
cc/cv mode: cc
polarity: positive
pulse: 30 μ s
pulse freq.: 100 Hz
modulation: random frequency
contact check: no
Position of electrodes plate electrodes of the size corresponding to the treated joint, transregional
Length of application 15 - 20 min., step 1 min.
Frequency of treatments daily
Number of treatments 6
Intensity above threshold sensitivity
Effect analgesic
(17)



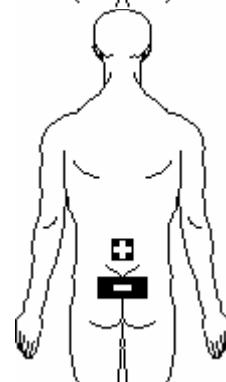
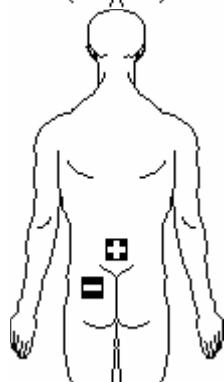
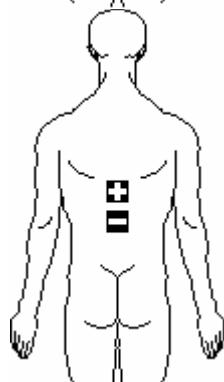
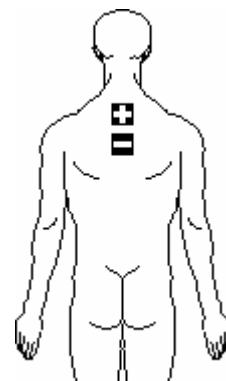
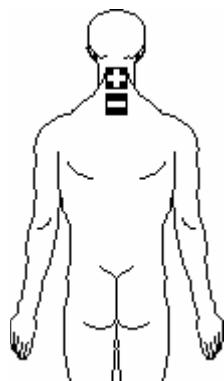
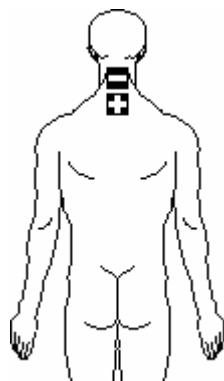
26 ARTHROSIS ACUTA 4

Program E-5737
TENS 300 μ s
Therapy parameters current: TENS
type: asymmetric
cc/cv mode: cv
polarity: positive
pulse: 300 μ s
pulse freq.: 100 Hz
modulation: burst
Number of pulses in burst: 5
burst freq.: 0.5 Hz
contact check: no
Position of electrodes neural application by active tip cathode above
the sensitive nerve which innervates the treated
joint, indifferent plate anode 100 cm²
transregional to the cathode
Length of application 10 - 20 min., step 2 min.
Frequency of treatments daily
Number of treatments 6
Intensity at threshold of pain (up to the highest endurable
level)
Effect analgesic
Note CV mode.
(18)



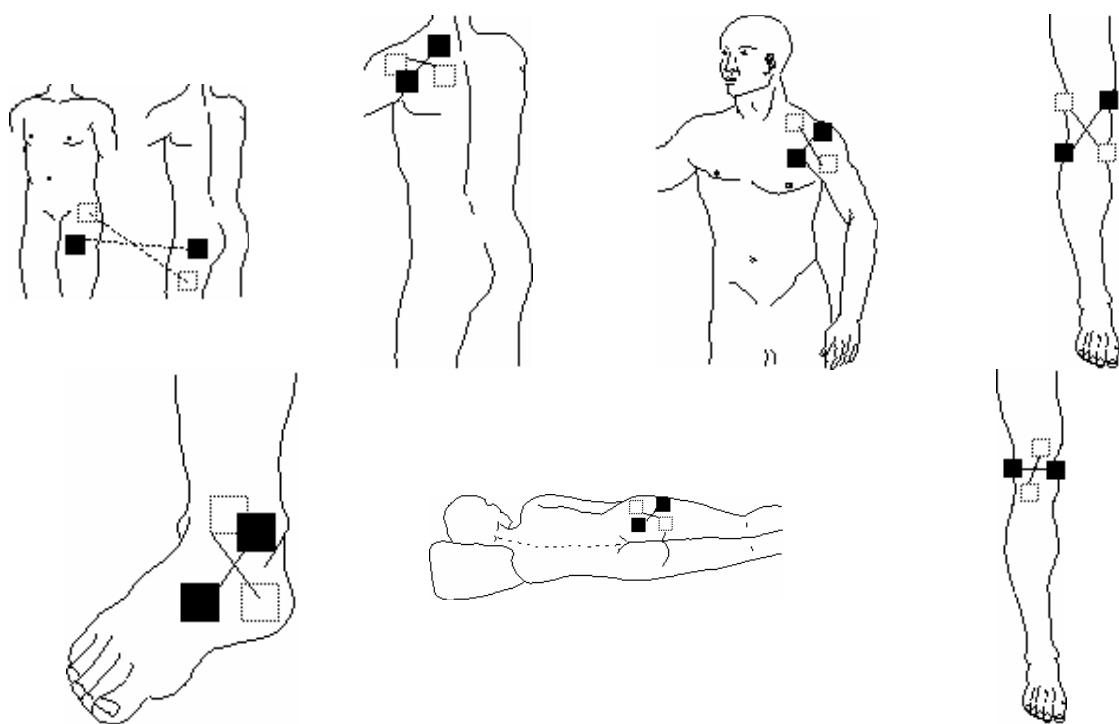
27 ARTHROSIS ACUTA 5

Program	E-0012 träbert current
Therapy parameters	current: interrupted pulses type: rectangular monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz contact check: yes
Position of electrodes	plate electrodes 100 cm ² in segmental location to the treated joint (EL 1. - EL 4.)
Length of application	15 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic (19)



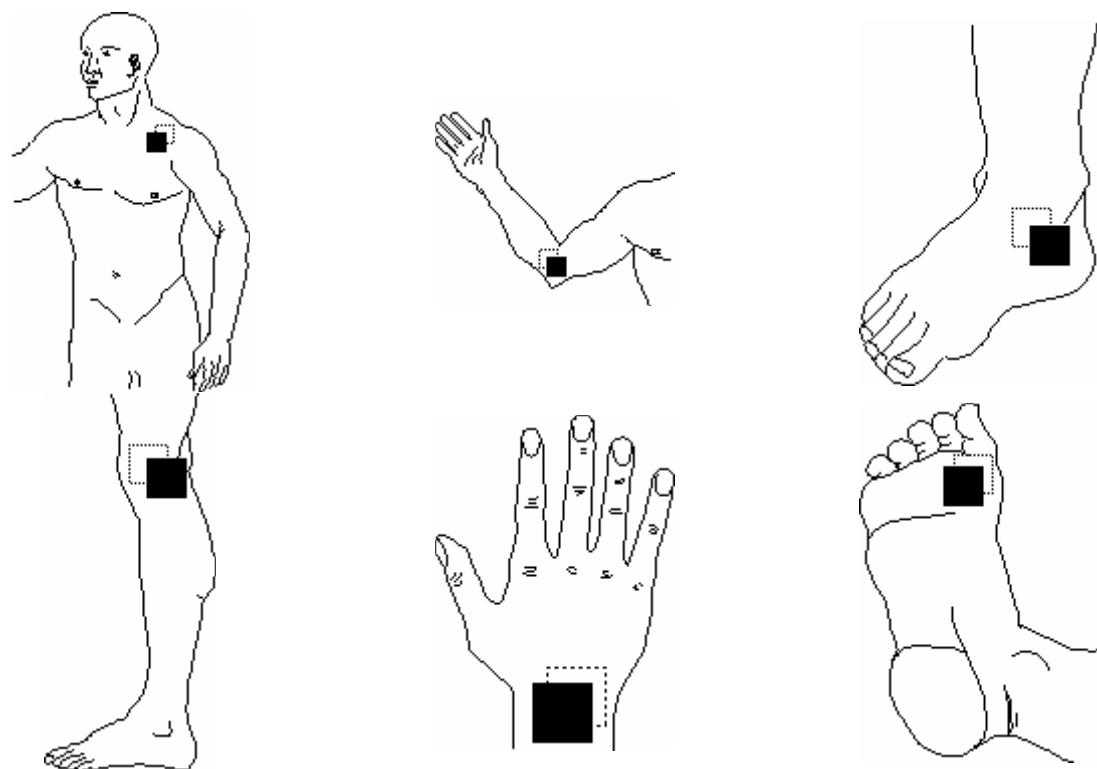
28 ARTHROSIS CHRONICA

Program	E-2359
Therapy parameters	dipole vector field 10 kHz current: special interference type: dipole manual cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 70 Hz spectrum: 60 Hz sweep: continuous rise: 1 s surge: 4 s fall: 1 s pause: 4 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	6 - 20 min., step 2 min.
Frequency of treatments	every other day
Number of treatments	8
Intensity	above threshold sensitivity for AMF
Effect	analgesic
Note	It is also possible to use plate electrodes. In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain). Then it is switched over to the therapeutic mode and the above-threshold-sensitive intensity is set as maximum. (21)



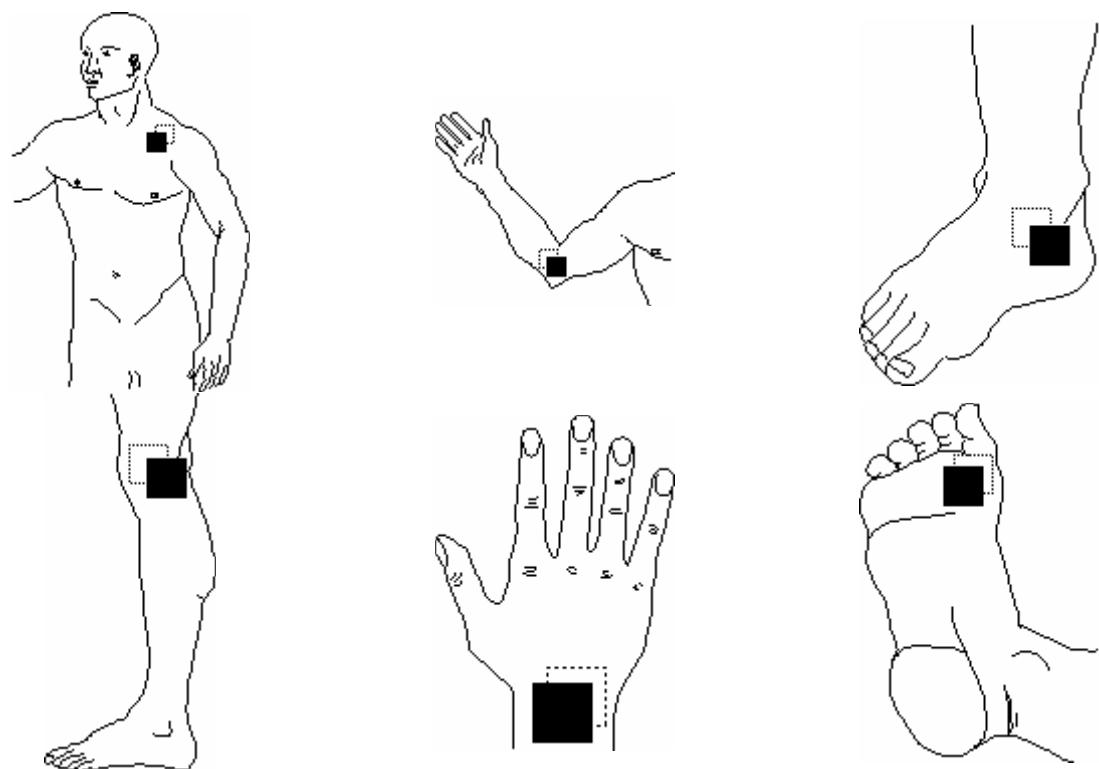
29 ARTHROSIS CHRONICA 2

Program	E-0149
Therapy parameters	diodynamic current LP current: diodynamics type: LP cc/cv mode: cc polarity: positive, reversal with interruption base: 1 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes of the size corresponding to the treated joint, transregional
Length of application	10 min., positive, reversal with interruption in the middle of treatment
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	above threshold sensitivity for the 100 Hz component of LP current
Effect	analgesic (22)



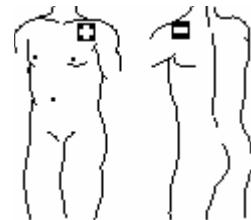
30 ARTHROSIS CHRONICA 3

Program E-5115
TENS 150 μ s
Therapy parameters current: TENS
type: asymmetric
cc/cv mode: cc
polarity: positive
pulse: 150 μ s
pulse freq.: 100 Hz
modulation: random frequency
contact check: no
Position of electrodes plate electrodes of the size corresponding to the treated joint, transregional
Length of application 15 - 20 min., step 1 min.
Frequency of treatments daily
Number of treatments 6
Intensity above threshold sensitivity
Effect analgesic
(23)



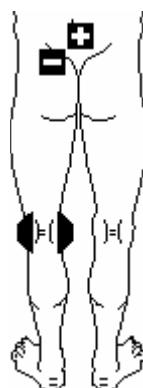
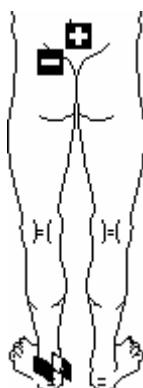
3 1 ARTHROSIS CHRONICA 4

Program E-5738
TENS 300 μ s
Therapy parameters current: TENS
type: asymmetric
cc/cv mode: cv
polarity: positive
pulse: 300 μ s
pulse freq.: 100 Hz
modulation: burst
Number of pulses in burst: 5
burst freq.: 5 Hz
contact check: no
Position of electrodes neural application by active tip cathode above
the sensitive nerve which innervates the treated
joint, indifferent plate anode 100 cm²
transregional to the cathode
Length of application 10 - 20 min., step 2 min.
Frequency of treatments daily
Number of treatments 6
Intensity at threshold of pain (up to the highest endurable
level)
Effect analgesic
Note CV mode.
(24)



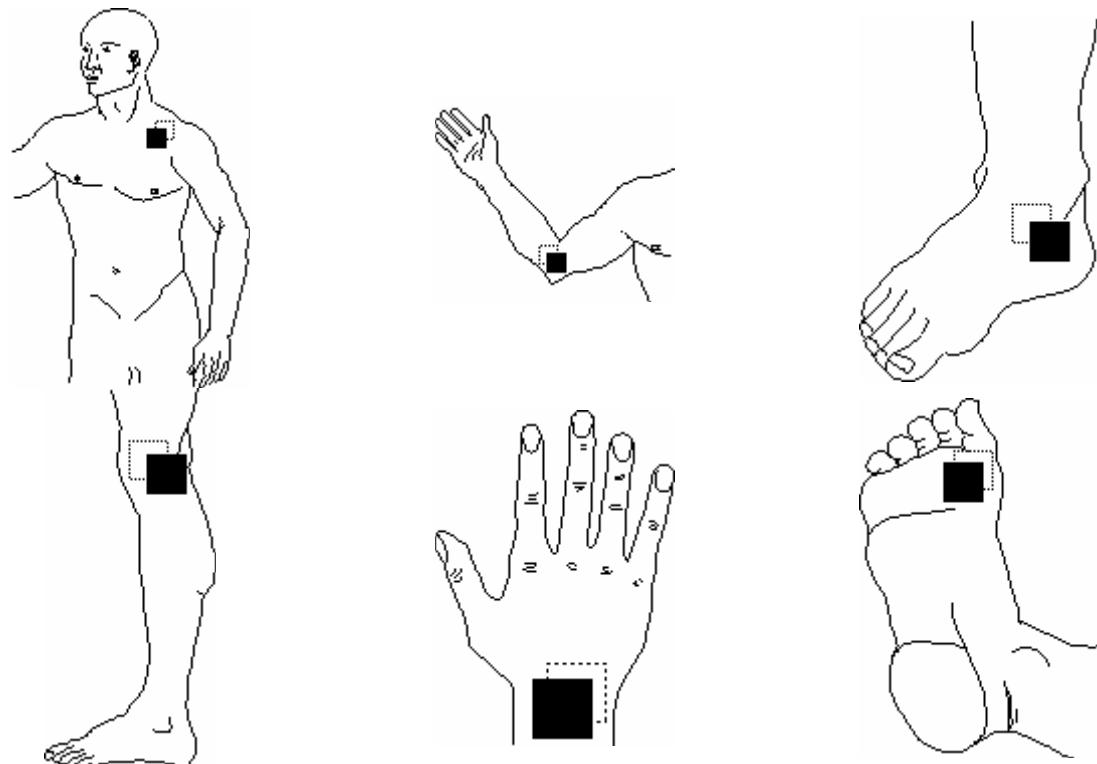
32 ARTHROSIS CHRONICA 5

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	1. circuit: plate electrodes 100 cm ² in segmental location to the treated joint (EL 1. - EL 4.) 2. circuit: plate electrodes transregional to the treated joint
Length of application	15 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Only segmental treatment can be used. Never treat the joint locally without simultaneous segmental application. Use 2 channels or channel division (A+B). (25)



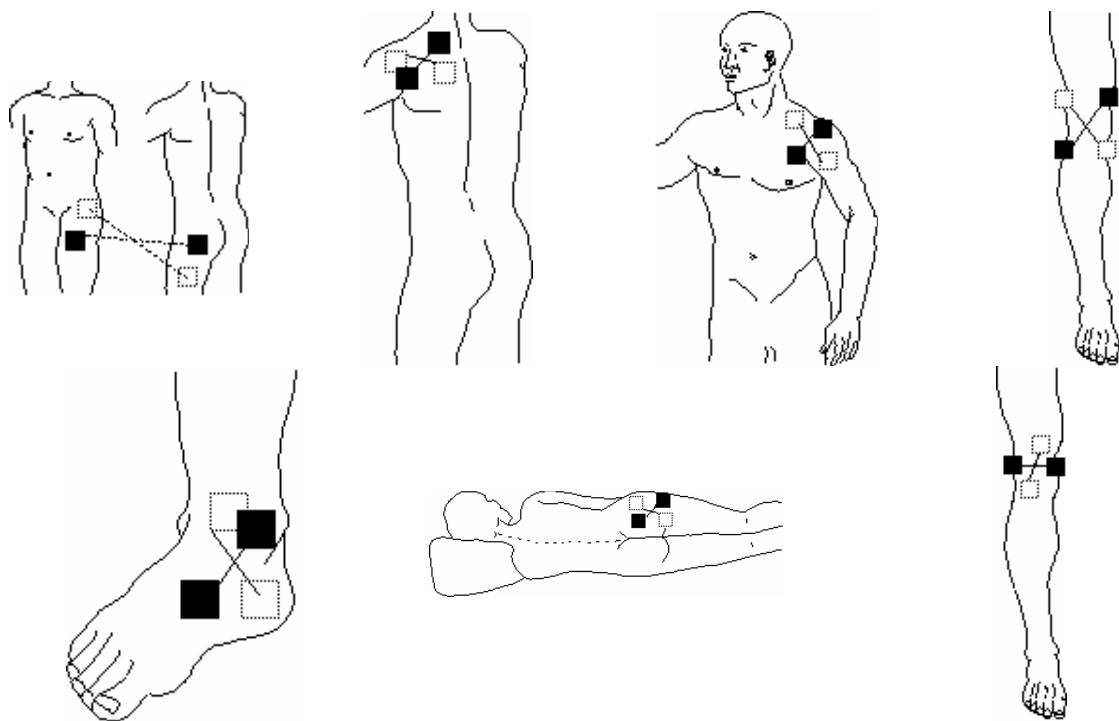
33 ARTHROSIS CHRONICA 6

Program E-0001
transversal galvanization
Therapy parameters current: galvanic
type: continuous
cc/cv mode: cc
polarity: positive
contact check: yes
Position of electrodes transregional at the affected joint
Length of application 30 - 60 min., step. 5 min.
Frequency of treatments 2 - 3x per week
Number of treatments 9
Intensity max. at threshold sensitivity
Current density max. 0.1 mA/cm²
Effect trophic, antiedematous
Note Use protective solutions.
Composition of the protective solutions:
1) anode protective solution:
= natrii chlorati - 5.0 g
= natrii hydroxydati - 1.0 g
= aquae destillatae - ad 1000 ml
2) cathode protective solution:
= natrii chlorati - 5.0 g
= acidi hydrochlorici diluti - 6.5 g
= aquae destillatae - ad 1000 ml
(26)



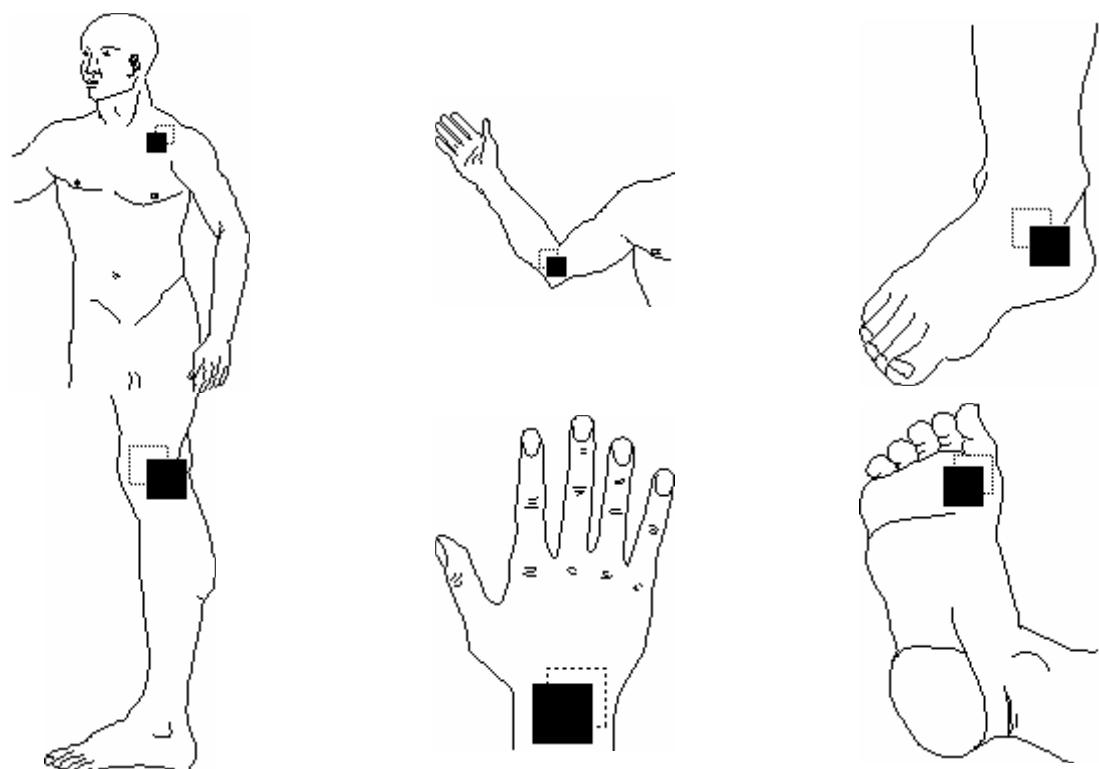
34 ARTHROSIS OEDEMATOSUS

Program	E-5800
Therapy parameters	isoplanar interference 4 kHz current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 50 Hz spectrum: 70 Hz sweep: continuous rise: 2 s surge: 4 s fall: 2 s pause: 4 s sweep time: 10 s contact check: yes suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection 5 - 15 min., step 2 min.
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	5 - 15 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold motor level for AMF
Effect	antiedematous, trophic, myostimulation
Note	It is also possible to use plate electrodes. (28)



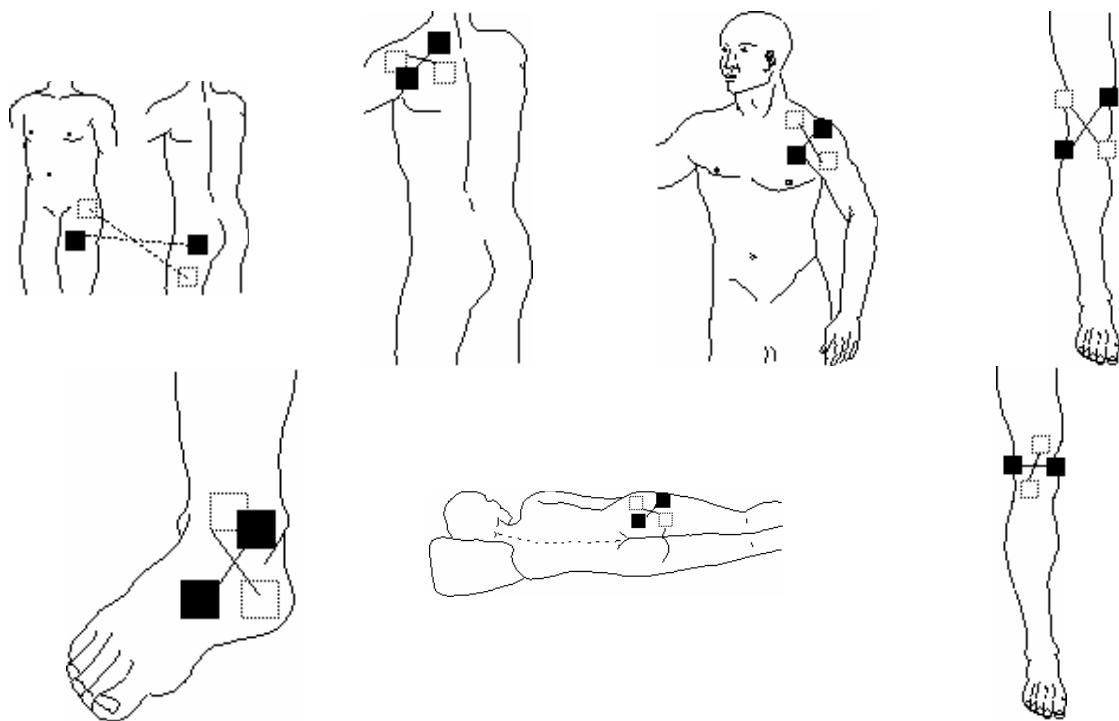
35 ARTHROSIS OEDEMATOSUS 2

Program E-0162
Therapy parameters diodynamic current CP-ISO
current: diodynamics
type: CP-ISO
cc/cv mode: cc
polarity: positive
base: 0.5 %
basic frequency: 50 Hz / 100 Hz
interruption: no
contact check: yes
Position of electrodes plate electrodes of the size corresponding to the treated joint, transregional
Length of application 12 min., positive, reversal with interruption in the middle of treatment
Frequency of treatments daily
Number of treatments 5
Intensity from below threshold motor level to threshold motor level (according to the patient's endurance)
Effect antiedematous, trophic, myostimulation (29)



36 BURSITIS ACUTA

Program	E-5801
Therapy parameters	isoplanar interference 4 kHz current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 20 Hz sweep: continuous rise: 10 s surge: 0 s fall: 10 s pause: 0 s sweep time: 10 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	6 - 10 min., step 1 min
Frequency of treatments	daily
Number of treatments	5
Intensity	at threshold sensitivity
Effect	analgesic
Note	It is also possible to use plate electrodes. (31)



37 BURSITIS ACUTA 2

Program E-4825
TENS 70 µs
Therapy parameters current: TENS
type: asymmetric
cc/cv mode: cc
polarity: positive
pulse: 70 µs
pulse freq.: 100 Hz
modulation: constant frequency
contact check: no
Position of electrodes active cathode (up to 10 cm²) above the origin of the relevant spinal root, indifferent anode 100 cm² paravertebral (above the contralateral root of the identical segment)
5 - 20 min., step 1 min.
Length of application daily
Frequency of treatments 6
Number of treatments
Intensity above threshold sensitivity
Effect analgesic
Note Paravertebral (segmental) application.
(32)

38 CELLULITIS - STRATUM PROFUNDUM

Program E-0854
4-pole interference 4 kHz
Therapy parameters current: interference
type: 4-pole
cc/cv mode: cc
polarity: positive
carrier frequency: 4000 Hz
AMF: 60 Hz
spectrum: 40 Hz
sweep: continuous
rise: 1 s
surge: 5 s
fall: 1 s
pause: 5 s
contact check: yes
Position of electrodes suction cup electrodes, spatial intersection of circuits so that the treated area is in the point of intersection of circuits
Length of application 15 min.
Frequency of treatments every other day
Number of treatments 6
Intensity at threshold motor level for AMF
Effect trophic, myostimulation
(36)

39 CELLULITIS - STRATUM SUPERFICIALE

Program E-1907
diodynamic current DF + CP-ISO
Position of electrodes plate electrodes 6x8 cm transregional above the treated area
Length of application DF 1 min. + CP-ISO 4 min + CP-ISO 4 min. (reversal with interruption)
Frequency of treatments first 3 daily, then every other day
Number of treatments 6
Intensity above threshold sensitivity for DF, up to threshold motor level for CP-ISO
Effect trophic
Note Reversal of polarity after 5 minutes.
Besides the trophic effect this current has also considerable analgesic effect which, however, is not relevant for this diagnosis.
(34)

4 0 C H E L O I D U M

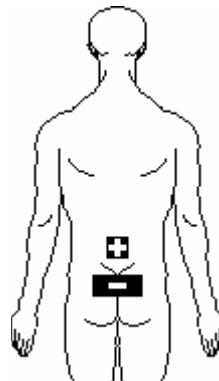
Program	E-0001
Therapy parameters	potassium iontophoresis current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional; anode (active - potassium solution) above the scar; cathode (indifferent - cathode protective solution) opposite the anode; the size of the active electrode corresponds to the treated scar
Length of application	20 - 30 min., step 2 min. (When applying dosed iontophoresis the length of application depends on the current dosage. For 2.92 mg K+ the current dosage is approximately 300 mA/min.)
Frequency of treatments	3x per week (every other day)
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	anode solution: = kalii chlorati (anhydrici) - 6.0 g = kalii hydroxydati in substantia - 1.2 g = aquae destillatae - ad 1000 ml cathode solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (105)

4 1 C H E L O I D U M 2

Program	E-0001
Therapy parameters	iodide iontophoresis current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional; cathode (active - iodid solution) at the scar; anode (indifferent - anode protective solution) opposite the cathode; the size of the active electrode corresponds to the treated scar
Length of application	20 - 30 min., step 2 min. (When applying dosed iontophoresis the length of application depends on the current dosage. For 8.5 mg I- the current dosage is approximately 300 mA/min.).
Frequency of treatments	3x per week (every other day)
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	cathode solution: = kalii iodati - 14.0 g = acidi hydrochlorici diluti - 5.6 g = aquae destillatae - ad 1000 ml anode solution: = natrii chlorati - 5.0 g = natrii hydroxydati in substantia - 1.0 g = aquae destillatae - ad 1000 ml (106)

4 2 CLAUDICATIO INTERMITENS

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 4.: cranial anode 8x12 cm (50 - 100 cm ²) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	15 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	10
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic, trophic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (38)

**4 3 CLAUDICATIO INTERMITENS 2**

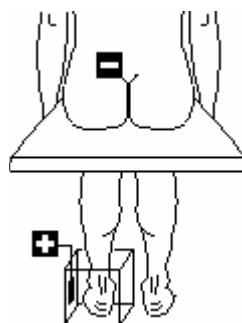
Program	E-0137
Therapy parameters	diodynamic current CP current: diodynamics type: CP cc/cv mode: cc polarity: positive base: 20 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	plate electrodes 100 cm ² , anode (anode protective solution) paravertebral (homolaterally towards the treated lower extremity) in the L2-S1 area, cathode (cathode protective solution) above the dorsal area of calf or at the foot sole
Length of application	20 - 30 min., step 1 min.
Frequency of treatments	daily, at left and right leg in turns (if both are affected)
Number of treatments	22 (11 each leg)
Intensity	above threshold sensitivity
Effect	analgesic, trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (39)

44 CLAUDICATIO INTERMITENS 3

Program E-0110
 Therapy parameters diodynamic current DF
 current: diodynamics
 type: DF
 cc/cv mode: cc
 polarity: positive revers. with interrupt.
 base: 0.5 %
 basic frequency: 50 Hz / 100 Hz
 interruption: no
 contact check: yes
 Position of electrodes plate electrodes 6x8 cm, paravertebral in the L2-S1 area homolaterally to the treated extremity
 Length of application 12 min., reversal with interruption in the middle of treatment
 Frequency of treatments daily
 Number of treatments 9
 Intensity above threshold sensitivity
 Effect trophic
 (40)

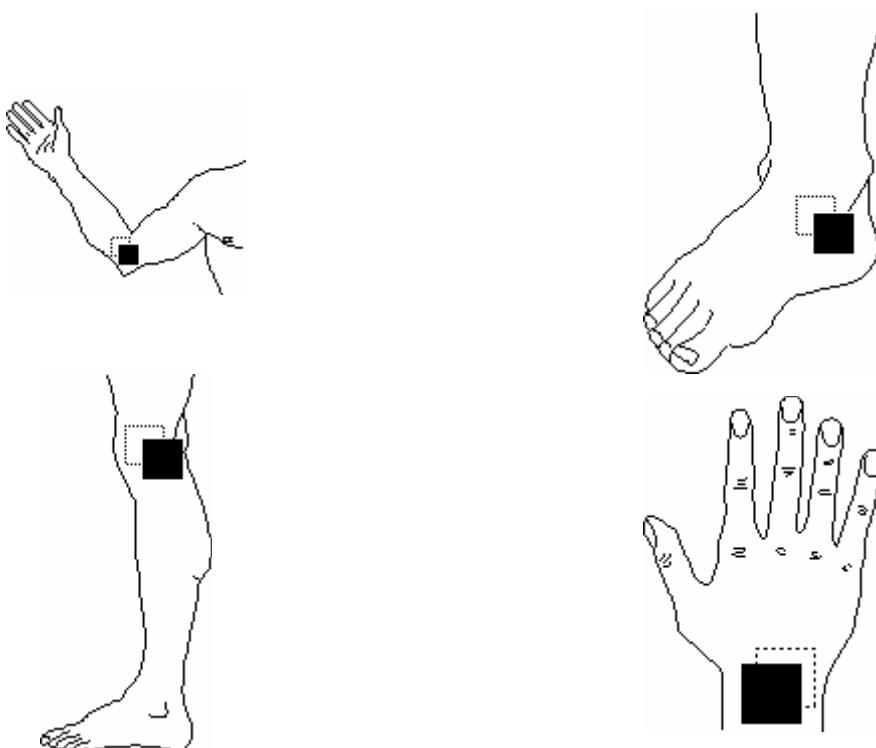
45 CLAUDICATIO INTERMITENS 4

Program E-0112
 Therapy parameters diodynamic current DF
 current: diodynamics
 type: DF
 cc/cv mode: cc
 polarity: positive
 base: 0.5 %
 basic frequency: 50 Hz / 100 Hz
 interruption: no
 contact check: yes
 Position of electrodes plate cathode 8x12 cm paravertebral in the L3-S1 area, anode in the form of isothermal water bath on the affected lower extremity
 Length of application max. 6 min.
 Frequency of treatments first 5 daily, then 3x per week
 Number of treatments 10 - 20 (long-term application 3 - 5 weeks according to the patient's state)
 Intensity above threshold sensitivity
 Effect trophic
 Note Owing to considerably slower adaptation of sympathetic plexi do not increase the intensity as set at the beginning of therapy.
 If using cathode protective solution it is possible to extend the time of application to 10 - 12 min.
 Composition of the protective solution:
 cathode solution:
 = natrii chlorati - 5.0 g
 = acidi hydrochlorici diluti - 6.5 g
 = aquae destillatae - ad 1000 ml
 (41)



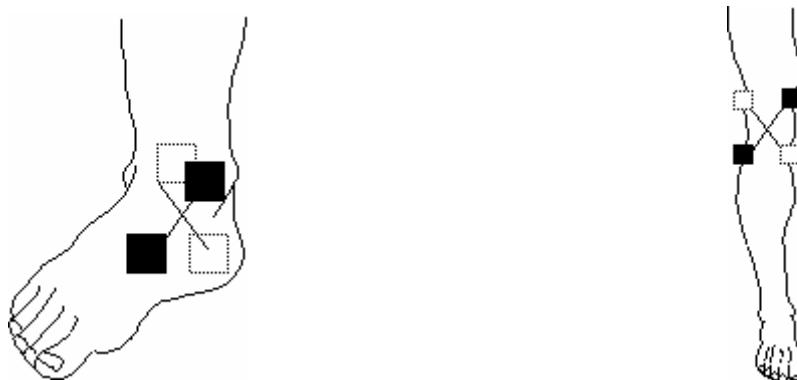
46 DISTORTIO, CONTUSIO - CONSOLIDATIO

Program	E-0001 transversal galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional (anode above the painful area), size of electrodes corresponding to the treated region
Length of application	30 - 45 min., step 5 min.
Frequency of treatments	2x per day
Number of treatments	4 - 6
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	analgesic, trophic, antiedematous
Note	Use protective solutions. Apply within the first 48 hours after the accident. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (51)



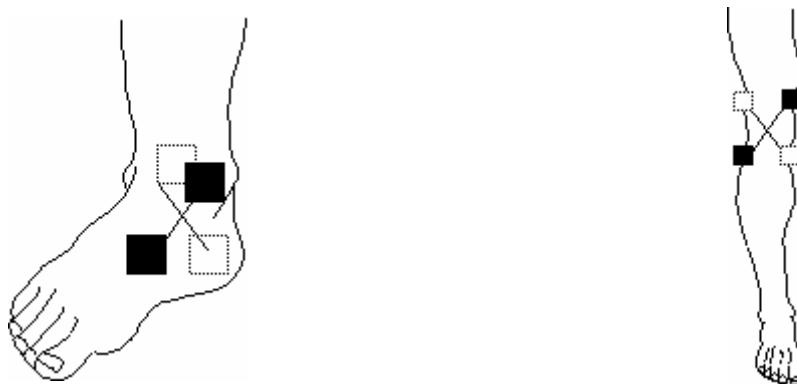
47 DISTORTIO, CONTUSIO - CONSOLIDATIO 2

Program E-2247
 dipole vector field 4 kHz
 Therapy parameters
 current: special interference
 type: dipole manual
 cc/cv mode: cc
 polarity: positive
 carrier frequency: 4000 Hz
 AMF: 80 Hz
 spectrum: 40 Hz
 sweep: continuous
 rise: 1 s
 surge: 2 s
 fall: 1 s
 pause: 2 s
 contact check: yes
 Position of electrodes suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
 Length of application 10 - 20 min., step 2 min.
 Frequency of treatments daily
 Number of treatments 6
 Intensity above threshold sensitivity
 Effect analgesic
 Note It is also possible to use plate electrodes - observe the principle of circuit intersection.
 In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain).
 Then it is switched over to the therapeutic mode and the above-threshold-sensitive intensity is set as maximum.
 (52)



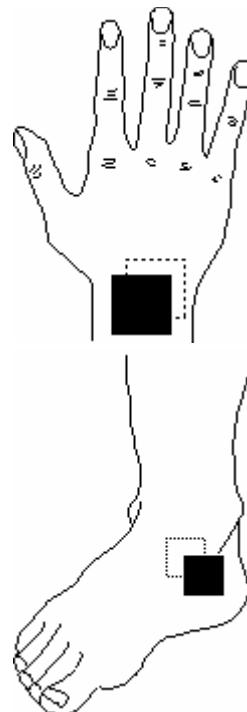
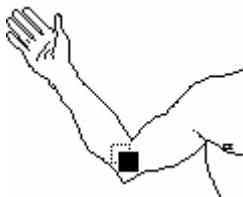
48 DISTORTIO, CONTUSIO - CONSOLIDATIO 3

Program E-2231
 dipole vector field 4 kHz
 Therapy parameters current: special interference
 type: dipole manual
 cc/cv mode: cc
 polarity: positive
 carrier frequency: 4000 Hz
 AMF: 50 Hz
 spectrum: 50 Hz
 sweep: in jumps
 1. time: 1 s
 2. time: 1 s
 contact check: yes
 Position of electrodes suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
 Length of application 6 - 10 min., step 1 min.
 Frequency of treatments daily
 Number of treatments 5
 Intensity at threshold motor level for AMF
 Effect antiedematous, trophic, myostimulation
 Note It is also possible to use plate electrodes - observe the principle of circuit intersection.
 In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain).
 Then it is switched over to the therapeutic mode and the above-threshold-sensitive intensity is set as maximum.
 (53)



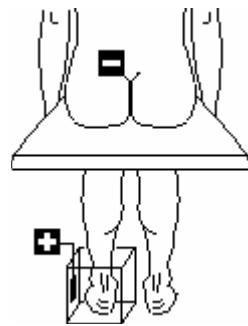
49 DISTORTIO, CONTUSIO - PERACUTA

Program	E-0001
	transversal galvanization
Therapy parameters	<p>current: galvanic</p> <p>type: continuous</p> <p>cc/cv mode: cc</p> <p>polarity: positive</p> <p>contact check: yes</p>
Position of electrodes	transregional (anode above the painful area), size of electrodes corresponding to the treated region
Length of application	30 - 45 min., step 5 min.
Frequency of treatments	2x per day
Number of treatments	4 - 6
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	antiedematous, trophic, analgesic
Note	<p>Use protective solutions.</p> <p>Composition of the protective solutions:</p> <p>1) anode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= natrii hydroxydati - 1.0 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>2) cathode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= acidi hydrochlorici diluti - 6.5 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>(43)</p>



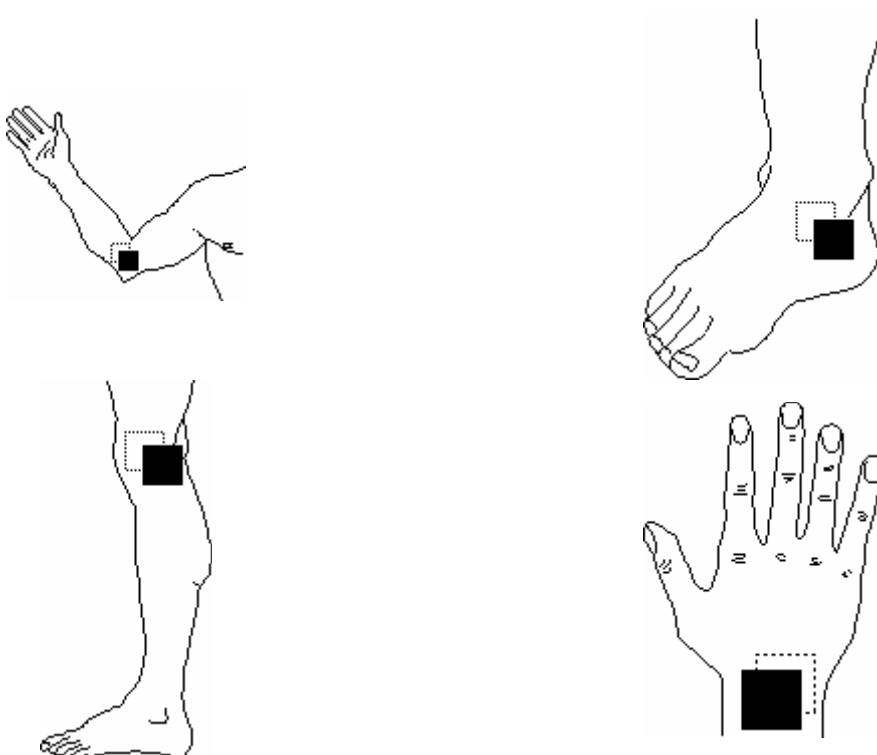
50 DISTORTIO, CONTUSIO - PERACUTA 2

Program	E-0001
Therapy parameters	<p>transversal galvanization - bath</p> <p>current: galvanic</p> <p>type: continuous</p> <p>cc/cv mode: cc</p> <p>polarity: positive</p> <p>contact check: yes</p>
Position of electrodes	<p>anode 8x12 cm paravertebral in the L3-S1 area,</p> <p>cathode in the form of isothermal water bath on</p> <p>the affected lower extremity</p>
Length of application	30 - 45 min., step 5 min.
Frequency of treatments	2x per day
Number of treatments	4 - 6
Intensity	max. at threshold sensitivity, max. 20 mA
Current density	max. 0.1 mA/cm ²
Effect	antiedematous, trophic, analgesic
Note	<p>The treated joint is immersed in partial cold bath.</p> <p>The electrode is fixed to the side of the tub.</p> <p>Use anode protective solution under the anode.</p> <p>Composition of the protective solution:</p> <p>anode protective solution:</p> <p>= natrii chlorati - 5.0 g</p> <p>= natrii hydroxydati - 1.0 g</p> <p>= aquae destillatae - ad 1000 ml</p> <p>(44)</p>



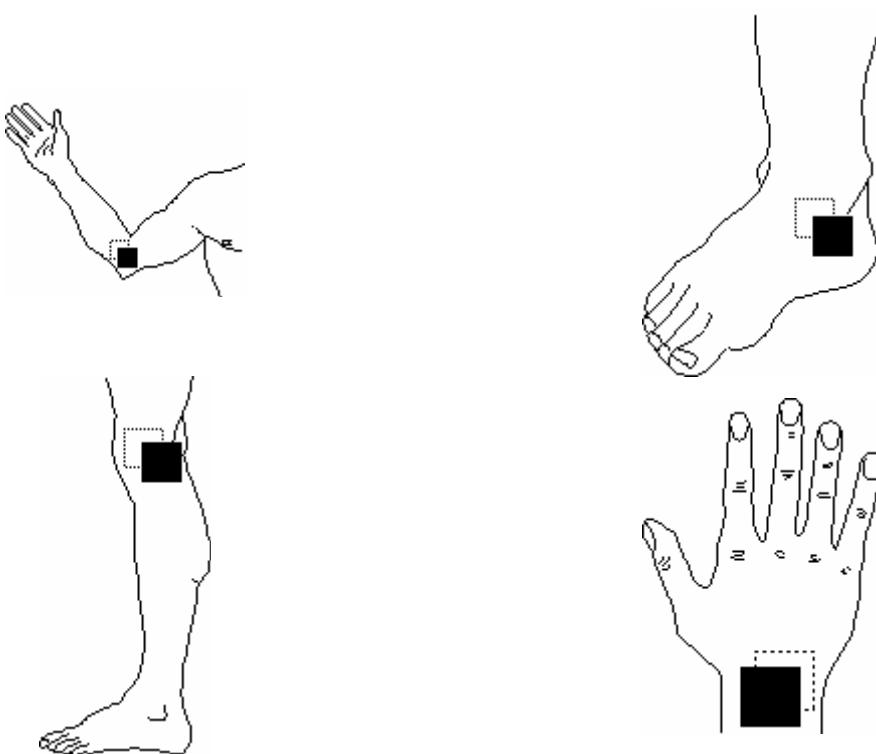
5.1 DISTORTIO, CONTUSIO - SUBACUTA

Program E-0165
diodynamic current CP-ISO
Therapy parameters current: diodynamics
type: CP-ISO
cc/cv mode: cc
polarity: positive
base: 5 %
basic frequency: 50 Hz / 100 Hz
interruption: no
contact check: yes
Position of electrodes plate electrodes of the size corresponding to the treated joint, transregional, cathode above the painful area
Length of application 3 - 6 min, step 1 min.
Frequency of treatments daily
Number of treatments 4
Intensity from below threshold motor level to threshold motor level (according to the patient's endurance)
Effect antiedematous, trophic, myostimulation (46)



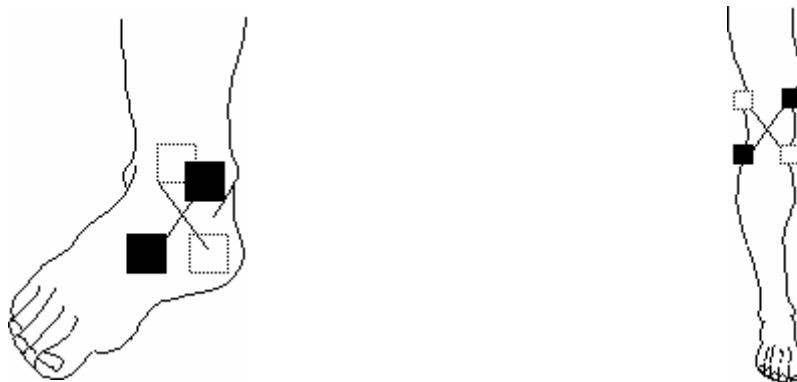
52 DISTORTIO, CONTUSIO - SUBACUTA 2

Program E-0136
diodynamic current CP
Therapy parameters current: diodynamics
type: CP
cc/cv mode: cc
polarity: positive
base: 10 %
basic frequency: 50 Hz / 100 Hz
interruption: no
contact check: yes
Position of electrodes plate electrodes of the size corresponding to the treated joint, transregional, cathode above the painful area
Length of application 3 - 6 min., step 1 min.
Frequency of treatments daily
Number of treatments 4
Intensity from threshold motor level to above it
Effect antiedematous, trophic, myostimulation (47)



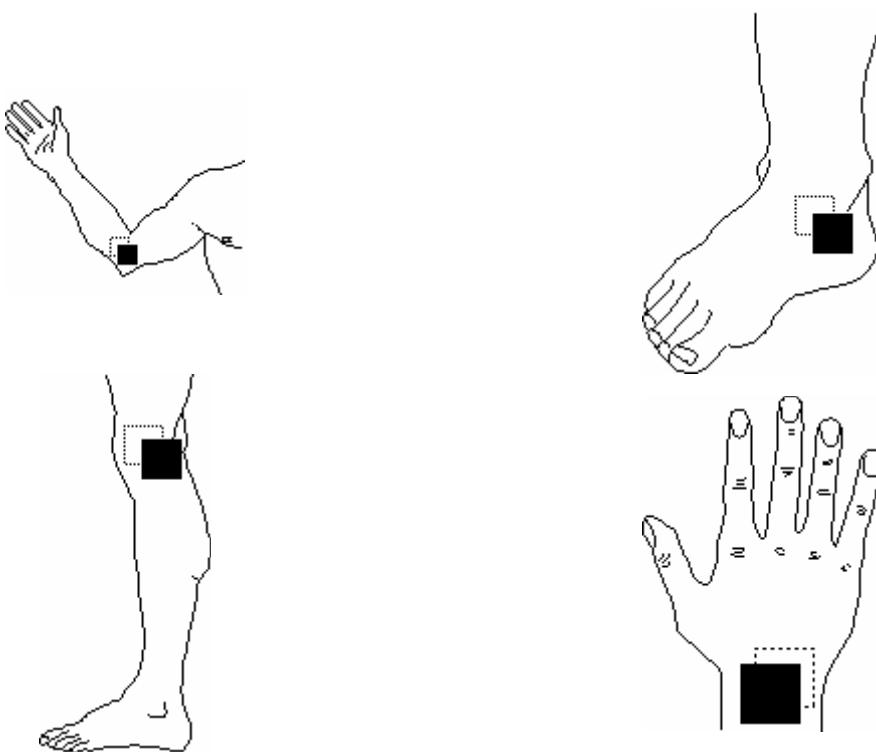
53 DISTORTIO, CONTUSIO - SUBACUTA 3

Program E-2013
 Therapy parameters isoplanar interference 4 kHz
 current: special interference
 type: isoplanar
 cc/cv mode: cc
 polarity: positive
 carrier frequency: 4000 Hz
 AMF: 30 Hz
 spectrum: 30 Hz
 sweep: in jumps
 1. time: 1 s
 2. time: 1 s
 sweep time: 2 s
 contact check: yes
 Position of electrodes suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
 Length of application 3 - 6 min., step 1 min.
 Frequency of treatments daily
 Number of treatments 4
 Intensity up to threshold motor level
 Effect antiedematous, myostimulation, trophic
 Note It is also possible to use plate electrodes.
 (48)



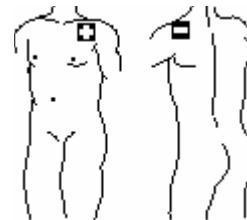
54 DISTORTIO, CONTUSIO - SUBACUTA 4

Program E-2713
 2-pole interference 10 kHz
 Therapy parameters current: interference 2p
 type: 2-pole
 cc/cv mode: cc
 polarity: positive
 carrier frequency: 10000 Hz
 AMF: 30 Hz
 spectrum: 30 Hz
 sweep: in jumps
 1. time: 1 s
 2. time: 1 s
 contact check: yes
 Position of electrodes suction cup electrodes d=60 mm, the treated joint transregional in the current path
 Length of application 3 - 6 min., step 1 min.
 Frequency of treatments daily
 Number of treatments 4
 Intensity up to threshold motor level
 Effect antiedematous, myostimulation, trophic
 Note It is also possible to use plate electrodes.
 (49)



55 DOLOR POSTOPERATIVA

Program	E-5738
Therapy parameters	TENS 300 μ s current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	neural application by active tip cathode above the sensitive nerve which innervates the treated joint, indifferent plate anode 100 cm ² transregional to the cathode
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold of pain (up to the highest endurable level)
Effect	analgesic
Note	CV mode. (55)

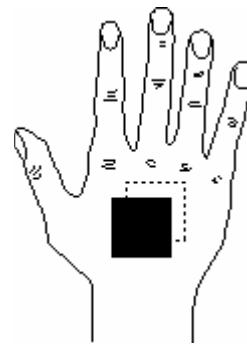


56 DOLOR POSTOPERATIVA 2

Program	E-1525
Therapy parameters	TENS 50 μ s current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 50 us pulse freq.: 100 Hz modulation: constant frequency contact check: no
Position of electrodes	plate electrodes 4x6 cm so that the postoperative scar is in the current path
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic (56)

57 DUPUYTREN'S CONTRACTURE

Program	E-0001
Therapy parameters	hyaluronidase iontophoresis current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional - anode (active - hyaluronidase solution) at the palmar side of hand, cathode (indifferent - cathode protective solution) at the volar side of hand, size of electrodes 4x6 cm 30 min.
Length of application	30 min.
Frequency of treatments	2 - 3x per week
Number of treatments	9
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	anode solution (components of hyaluronidase solution): solution 1 (acetate puffer): = natrii acetici - 11.5 g = acidi acetici gracialis - 0.95 g = aquae destillatae - ad 1000 ml solution 2 (hyaluronidase): = dissolve 1 vial of hyaluronidase in 1 vial of redistilled water (58)

**58 DYSMENORRHOEA**

Program	E-4815
Therapy parameters	TENS 70 µs current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 70 µs pulse freq.: 100 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes 24 cm ² symmetrically right and left above the symphysis, for the two-channel application also paravertebral at the lower lumbar area
Length of application	20 min
Frequency of treatments	daily
Number of treatments	6 - 9
Intensity	above threshold sensitivity
Effect	analgesic (60)

5 9 E D E M A R E D U C T I O N

Program E-3559
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 0.1 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(587)

6 0 E P I C O N D Y L I T I S (B I L A T E R A L I S)

Program E-0845
4-pole interference 4 kHz
Therapy parameters current: interference
type: 4-pole
cc/cv mode: cc
polarity: positive
carrier frequency: 4000 Hz
AMF: 90 Hz
spectrum: 60 Hz
sweep: continuous
rise: 3 s
surge: 3 s
fall: 3 s
pause: 3 s
contact check: yes
Position of electrodes suction cup electrodes, spatial intersection of circuits so that both epicondyles are in the area of 100% current modulation
Length of application 10 min.
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold sensitivity
Effect analgesic
(62)

6 1 EPICONDYLITIS RADIALIS (ULNARIS)

Program E-0945
Therapy parameters 2-pole interference 4 kHz
current: interference 2p
type: 2-pole
cc/cv mode: cc
polarity: positive
carrier frequency: 4000 Hz
AMF: 90 Hz
spectrum: 50 Hz
sweep: continuous
rise: 1 s
surge: 3 s
fall: 1 s
pause: 3 s
contact check: yes
Position of electrodes suction cup electrodes d=60 mm so that the treated muscle is in the current path
Length of application 10 min.
Frequency of treatments every other day
Number of treatments 5
Intensity up to threshold motor level for 90 Hz
Effect analgesic, myostimulation, myorelaxation
Note It is also possible to use plate electrodes.
(64)

6 2 EPICONDYLITIS RADIALIS (ULNARIS) 2

Program E-7619
Therapy parameters high voltage therapy
current: HVT
type: symmetric
cc/cv mode: cv
polarity: positive
frequency: 200 Hz
modulation: random frequency
contact check: no
Position of electrodes plate electrodes up to 4x6 cm above the extensors (flexors) of wrist and hand
Length of application 5 min., step 1 min.
Frequency of treatments daily
Number of treatments 5
Intensity above threshold sensitivity (for 260 Hz) to threshold motor level (for 140 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect myorelaxation, analgesic
Note CV mode.
(65)

6 3 H A E M A R T H R O S I S

Program	E-0915
Therapy parameters	2-pole interference 4 kHz current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 50 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	transregional, plate electrodes, size corresponding to the treated joint (so that the treated joint is in the current path)
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	5
Intensity	at threshold motor level for 90 Hz, above threshold sensitivity for 140 Hz
Effect	analgesic, antiedematous, myostimulation (67)

6 4 H A E M A R T H R O S I S 2

Program	E-0815
Therapy parameters	4-pole interference 4 kHz current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 90 Hz spectrum: 60 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes, size corresponding to the treated joint (so that the treated joint is in the circuit intersection point)
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	5
Intensity	at threshold motor level for 90 Hz, above threshold sensitivity for 150 Hz
Effect	analgesic, antiedematous, myostimulation
Note	It is also possible to use plate electrodes. (68)

65 H A E M A T O M A - P E R A C U T E

Program	E-0001
Therapy parameters	transversal galvanization current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	transregional - anode above the haematoma, size of electrodes corresponding to the size of the haematoma
Length of application	20 min.
Number of treatments	1
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	Use anode and cathode protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (70)

66 H A E M A T O M A - P E R A C U T E 2

Program	E-0390
Therapy parameters	rectangular pulses 1 ms, trapezoid surges current: rectangular pulses type: symmetric cc/cv mode: cc polarity: positive pulse: 1 ms pulse freq.: 50 Hz modulation: trapezoid surges rise: 1 s surge: 2 s fall: 1 s pause: 6 s contact check: yes
Position of electrodes	plate electrodes above and below the haematoma in longitudinal orientation towards the superficial muscle fibres under the haematoma
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	at threshold motor level
Effect	antiedematous, analgesic, myostimulation (71)

67 H A E M A T O M A - P E R A C U T E 3

Program	E-2714
Therapy parameters	2-pole interference 10 kHz current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 60 Hz spectrum: 40 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	plate electrodes above and below the haematoma in longitudinal orientation towards the superficial muscle fibres under the haematoma
Length of application	5 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	at threshold motor level for 50 Hz, above threshold sensitivity for 90 Hz
Effect	antiedematous, myostimulation, then myorelaxation (72)

68 H E R P E S Z O S T E R - N E U R A L G I A

Program	E-1906
Position of electrodes	diodynamic current DF + LP cathode radicular; clip electrode (d=16 mm) anode proximal; gradually in craniocaudal direction treat the segment above, in and below the point of eruption
Length of application	DF 1 min. + LP 3 min. (with interruption)
Frequency of treatments	daily
Number of treatments	5
Intensity	above threshold sensitivity (threshold motor level for the 50 Hz component of LP)
Effect	analgesic
Note	CV mode. (74)



69 HERPES ZOSTER - NEURALGIA 2

Program	E-0138
Therapy parameters	diodynamic current CP current: diodynamics type: CP cc/cv mode: cv polarity: positive base: 5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	clip electrode (d=16 mm); gradually treat the intercostal nerve correlating with the point of eruption, in ventral direction from the spine along the rib cage
Length of application	1 min. each location, within one session treat the whole intercostal nerve
Frequency of treatments	daily
Number of treatments	15
Intensity	above threshold sensitivity
Effect	analgesic, trophic
Note	CV mode. Pain must perceptibly subside within the first three applications, otherwise further application is useless. (75)

**70 HERPES ZOSTER - NEURALGIA 3**

Program	E-1535
Therapy parameters	TENS 50 μ s current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 50 μ s pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no
Position of electrodes	neural application, active electrode - cathode 1cm ² above the origin of intercostal nerve at the spine, indifferent - anode 100 cm ² paravertebral above the origin of contralateral intercostal nerve, then treat also the segment above and below the point of eruption
Length of application	10 min. each location (30 min. total)
Frequency of treatments	daily
Number of treatments	10 (in case of positive effect up to 20)
Intensity	above threshold sensitivity
Effect	analgesic
Note	cv mode. Last procedures every other day, in case of positive effect it is suitable to start self-therapy by portable stimulator. (76)



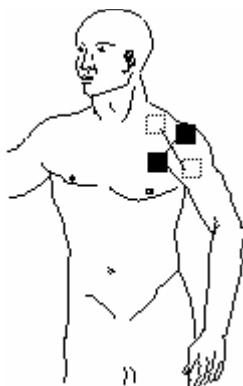
71 HERPES ZOSTER - NEURALGIA 4

Program	E-5739 TENS 300 μ s
Therapy parameters	current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 us pulse freq.: 1 Hz modulation: constant frequency contact check: no
Position of electrodes	neural application, active electrode - tip cathode (up to the size 3 mm ²) above the origin of intercostal nerve at the spine, indifferent - anode 100 cm ² paravertebral above the origin of contralateral intercostal nerve, then treat also the segment above and below the point of eruption
Length of application	5 min. each location (15 min. total)
Frequency of treatments	daily
Number of treatments	10 (in case of positive effect up to 20)
Intensity	from below threshold of pain to threshold of pain (the patient has a feeling of pricking by a needle)
Effect	analgesic
Note	Last 3 treatments every other day. (77)



72 HUMEROSCAPULAR PERIARTHRITIS

Program	E-2257
Therapy parameters	dipole vector field 4 kHz current: special interference type: dipole manual cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 70 Hz spectrum: 60 Hz sweep: continuous rise: 2 s surge: 4 s fall: 2 s pause: 4 s contact check: yes
Position of electrodes	suction cup electrodes d=60 mm, the treated joint in the point of circuit intersection
Length of application	5 - 15 min., step 2 min (in case of good tolerance)
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic
Note	<p>It is also possible to use plate electrodes - observe the principle of circuit intersection.</p> <p>In the diagnostic mode the dipole is targeted at the source of nociception in the joint with the parameter spectrum 0 Hz (subjectively the patient feels change from intensity above threshold sensitivity to the threshold of pain).</p> <p>Then the parameters are switched over to the therapeutic mode and the intensity above threshold sensitivity is set as maximum.</p> <p>(143)</p>

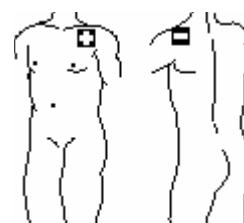


73 HUMEROSCAPULAR PERIARTHRITIS 2

Program	E-4515
Therapy parameters	TENS 30 μ s current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 30 μ s pulse freq.: 100 Hz modulation: random frequency contact check: no plate electrodes of the size suitable for the treated joint, transregional
Position of electrodes	
Length of application	15 - 20 min., step 1 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity
Effect	analgesic (144)

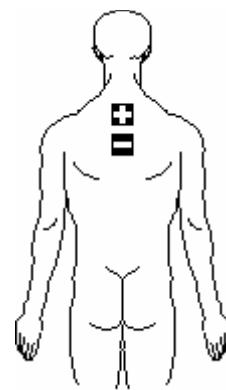
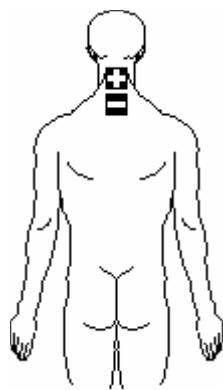
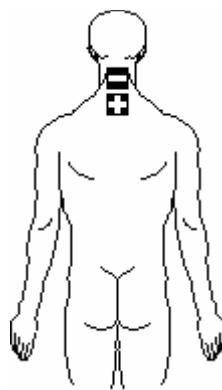
**74 HUMEROSCAPULAR PERIARTHRITIS 3**

Program	E-5738
Therapy parameters	TENS 300 μ s current: TENS type: asymmetric cc/cv mode: cv polarity: positive pulse: 300 μ s pulse freq.: 100 Hz modulation: burst Number of pulses in burst: 5 burst freq.: 5 Hz contact check: no neural application by active tip cathode above the sensitive nerve innervating the treated joint, indifferent plate anode 100 cm ² transregional to the cathode
Position of electrodes	
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	at threshold of pain (up to the highest endurable level)
Effect	analgesic
Note	CV mode. (145)



75 HUMEROSCAPULAR PERIARTHRITIS 4

Program E-0005
träbert current
Therapy parameters current: Träbert current
type: monophasic
cc/cv mode: cc
polarity: positive, reversal
pulse: 2 ms
pulse freq.: 142.86 Hz
modulation: constant frequency
contact check: yes
Position of electrodes plate electrodes 100 cm² in segmental localization to the treated joint (EL 1. - EL 2.)
Length of application 15 min.
Frequency of treatments daily
Number of treatments 6
Intensity below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect analgesic
(146)



76 HYPERPIGMENTATION - DECOLLETTE

Program E-3554
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(568)

77 HYPERPIGMENTATION - LEFT CHEEK

Program E-3553
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 0 Hz
usnd. PIP: 1:1
usnd. application type: semistatic
(581)

78 HYPERPIGMENTATION - LEFT HAND

Program E-3556
comb. therapy usnd 3MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 3 MHz
usnd. intensity: 0.5 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(583)

79 HYPERPIGMENTATION - RIGHT CHEEK

Program E-3552
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 0 Hz
usnd. PIP: 1:1
usnd. application type: semistatic
(566)

8 0 H Y P E R P I G M E N T A T I O N - R I G H T H A N D

Program E-3555
comb. therapy usnd 3MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 3 MHz
usnd. intensity: 0.5 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(570)

8 1 H Y P E R T O N I A M U S C U L O R U M

Program E-7454
high voltage therapy - double pulse
Therapy parameters current: HVT
type: double
cc/cv mode: cv
polarity: positive
frequency: 150 Hz
modulation: sine surges
surge length: 3 s
sine surge pause: 6 s
contact check: no
Position of electrodes plate electrodes 4x6 cm above the treated hypertonic muscle
Length of application 5 min.
Frequency of treatments first 2 daily, then every other day
Number of treatments 5
Intensity below threshold motor level to threshold motor at the beginning of therapy (muscle fasciculation)
Effect myorelaxation
Note CV mode.
(91)

8 2 H Y P E R T O N I A M U S C U L O R U M 2

Program E-7629
high voltage therapy - symmetric pulse
Therapy parameters current: HVT
type: symmetric
cc/cv mode: cv
polarity: positive
frequency: 180 Hz
modulation: constant frequency
contact check: no
Position of electrodes plate electrodes of the size corresponding to the treated fibres group (no more than 10 cm²) above the treated muscle
Length of application 5 - 7 min.
Frequency of treatments every other day
Number of treatments 4
Intensity threshold motor level at the beginning of therapy, do not increase
Effect myorelaxation
Note CV mode.
(92)

8 3 HYPOTONIA MUSCULORUM "PHASICUM"

Program	E-0016
Therapy parameters	interrupted rectangular pulses 1 ms current: interrupted pulses type: rectangular monophasic cc/cv mode: cc polarity: positive pulse: 1 ms pulse freq.: 50 Hz modulation: trapezoid surges rise: 2 s surge: 5 s fall: 1 s pause: 18 s contact check: yes plate electrodes 4x6 cm so that the treated muscle is in the current path
Position of electrodes	
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (83)

8 4 HYPOTONIA MUSCULORUM "PHASICUM" 2

Program	E-3070
Therapy parameters	h-waves (exponential surges 5.6 ms) current: H-waves type: symmetric cc/cv mode: cc polarity: negative pulse: 5.6 ms pulse freq.: 60 Hz modulation: sine surges surge length: 3 s sine surge pause: 6 s contact check: yes plate electrodes 4x6 cm so that the treated muscle is in the current path
Position of electrodes	
Length of application	5 - 10 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	6
Intensity	above threshold motor level
Effect	myostimulation (84)

85 HYPOTONIA MUSCULORUM "PHASICUM" 3

Program E-4980
TENS 150 µs
Therapy parameters current: TENS
type: symmetric
cc/cv mode: cc
polarity: positive
pulse: 150 us
pulse freq.: 50 Hz
modulation: sine surges
surge length: 5 s
sine surge pause: 15 s
contact check: no
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 5 - 10 min., step 1 min
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold motor level
Effect myostimulation
(85)

86 HYPOTONIA MUSCULORUM 'TONICUM'

Program E-0290
rectangular pulses 1 ms
Therapy parameters current: rectangular pulses
type: monophasic
cc/cv mode: cc
polarity: positive
pulse: 1 ms
pulse freq.: 50 Hz
modulation: trapezoid surges
rise: 1 s
surge: 3 s
fall: 1 s
pause: 7 s
contact check: yes
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 5 - 10 min., step 1 min.
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold motor level
Effect myostimulation
(87)

87 HYPOTONIA MUSCULORUM 'TONICUM' 2

Program E-0964
Therapy parameters
2-pole interference 4 kHz
current: interference 2p
type: 2-pole
cc/cv mode: cc
polarity: positive
carrier frequency: 4000 Hz
AMF: 60 Hz
spectrum: 60 Hz
sweep: continuous
rise: 6 s
surge: 0 s
fall: 6 s
pause: 0 s
contact check: yes
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 5 - 10 min., step 1 min.
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold motor level
Effect myostimulation
(88)

88 HYPOTONIA MUSCULORUM 'TONICUM' 3

Program E-2812
Therapy parameters
russian stimulation
current: russian stimulation
cc/cv mode: cc
polarity: positive
carrier frequency: 4000 Hz
pulse frequency: 50 Hz
pulse/pause ratio: 1:1
rise: 1 s
surge: 2 s
fall: 1 s
pause: 12 s
contact check: yes
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 5 - 10 min., step 1 min.
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold motor level
Effect myostimulation
(89)

89 HYPOTONIA MUSCULORUM POSTOPERATIVA

Program E-2912
russian stimulation
Therapy parameters current: russian stimulation
cc/cv mode: cc
polarity: positive
carrier frequency: 10000 Hz
pulse frequency: 50 Hz
pulse/pause ratio: 1:1
rise: 1 s
surge: 2 s
fall: 1 s
pause: 12 s
contact check: yes
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 5 - 10 min., step 1 min.
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold motor level
Effect myostimulation
(79)

90 HYPOTONIA MUSCULORUM POSTOPERATIVA 2

Program E-7664
high voltage therapy
Therapy parameters current: HVT
type: symmetric
cc/cv mode: cv
polarity: positive
frequency: 50 Hz
modulation: trapezoid surges
rise: 3 s
surge: 3 s
fall: 3 s
pause: 10 s
contact check: no
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 5 - 10 min., step 1 min.
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold motor level
Effect myostimulation
Note CV mode.
(80)

9 1 HYPOTONIA MUSCULORUM POSTOPERATIVA 3

Program	E-2764
Therapy parameters	2-pole interference current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 60 Hz spectrum: 60 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes plate electrodes 4x6 cm so that the treated muscle is in the current path
Position of electrodes	5 - 10 min., step 1 min.
Length of application	every other day
Frequency of treatments	6
Number of treatments	above threshold motor level
Intensity	myostimulation
Effect	(81)

9 2 INCONTINENTIA MIXTA

Program	E-1909
Position of electrodes	TENS 300 µs intravaginal electrode
Length of application	30 min. (15 min. current a. + 15 min. current b., with interruption)
Frequency of treatments	daily (every other day)
Number of treatments	30 (repeating frequency of the series: 2 - 3 months)
Intensity	up to threshold motor level, according to the patient's endurance
Effect	myostimulation
Note	If this current is badly tolerated by the patient, set the maximum intensity that they tolerate. (102)

9 3 INCONTINENTIA MIXTA 2

Program	E-5736
Therapy parameters	TENS 300 µs, burst current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 300 µs pulse freq.: 50 Hz modulation: burst Number of pulses in burst: 3 burst freq.: 10 Hz contact check: no intravaginal electrode
Position of electrodes	30 min.
Length of application	daily
Frequency of treatments	30 (series 6 - 8 weeks)
Number of treatments	up to threshold motor level, according to the patient's endurance
Intensity	myostimulation
Effect	If this current is badly tolerated by the patient, set the maximum intensity that they tolerate. (103)
Note	

94 INCONTINENTIA STRESS

Program	E-1908
Position of electrodes	TENS 300 µs
Length of application	intravaginal electrode
Frequency of treatments	30 min. (rhythrical rotation of both programs)
Number of treatments	daily
Intensity	30 (repeating frequency of the series: 2 - 3 months)
Effect	up to threshold motor level, according to the patient's endurance
Note	myostimulation
	If this current is badly tolerated by the patient, set the maximum intensity that they tolerate. (98)

95 INCONTINENTIA URGENTIS

Program	E-5781
Therapy parameters	TENS 300 µs current: TENS type: asymmetric cc/cv mode: cc polarity: positive pulse: 300 µs pulse freq.: 10 Hz modulation: trapezoid surges rise: 3 s surge: 10 s fall: 2 s pause: 15 s contact check: no
Position of electrodes	intravaginal electrode
Length of application	30 min.
Frequency of treatments	daily
Number of treatments	14 (repeating frequency of the series: 3 months)
Intensity	up to threshold motor level, according to the patient's endurance
Effect	myostimulation
Note	In case of urgent incontinence even short-term electrostimulation can bring positive effect. If this current is badly tolerated by the patient, set the maximum intensity that they tolerate. (100)

96 INCONTINENTIA URINAE

Program	E-5804
Therapy parameters	4-pole interference 3.6 kHz current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 3600 Hz AMF: 50 Hz spectrum: 50 Hz sweep: continuous rise: 2 s surge: 6 s fall: 2 s pause: 3 s contact check: yes
Position of electrodes	suction cup electrodes so that the current circuits spatially intersect in the pelvic area (at the ventral side of the trunk laterally, symmetrically right and left 2 cm of the symphysis; at the dorsal side of the trunk medially to both ischial tubers - at the sides of the anus)
Length of application	15 min.
Frequency of treatments	2x per day
Number of treatments	10 - 20
Intensity	at threshold motor level for 50 Hz, according to the patient's endurance
Effect	myostimulation
Note	The carrier frequency can be adjusted to 4 kHz or higher. If the current is badly tolerated by the patient, set the maximum intensity that they tolerate. (94)

97 INCONTINENTIA URINAE 2

Program	E-5807
Therapy parameters	2-pole interference 3.6 kHz current: spastic stimulations cc/cv mode: cc polarity 1: positive polarity 2: positive T1: 0.5 ms delay: 250 ms T2: 0.5 ms pulse frequency: 1 Hz contact check: no
Position of electrodes	plate electrodes 6x8 cm above the anus, 4x6 cm above the symphysis
Length of application	5 min.
Frequency of treatments	2x per day
Number of treatments	10 - 20
Intensity	at threshold motor level for 35 Hz, according to the patient's endurance
Effect	myostimulation
Note	The carrier frequency can be adjusted to 4 kHz or higher. If the current is badly tolerated by the patient, set the maximum intensity that they tolerate. (95)

98 INCONTINENTIA URINAE 3

Program E-5812
TENS 250 µs
Therapy parameters current: TENS
type: asymmetric
cc/cv mode: cc
polarity: positive
pulse: 250 us
pulse freq.: 50 Hz
modulation: sine surges
surge length: 3 s
sine surge pause: 9 s
contact check: no
Position of electrodes vaginal or anal electrode
Length of application 5 min.
Frequency of treatments 2x per day
Number of treatments 10 - 20
Intensity at threshold motor level, according to the patient's endurance
Effect myostimulation
Note If the current is badly tolerated by the patient, set the maximum intensity that they tolerate.
(96)

99 IODINE IONTOPHORESIS (FOR KELOID SCAR)

Program E-0001
galvanization
Therapy parameters current: galvanic
type: continuous
cc/cv mode: cc
polarity: positive
contact check: yes
(591)

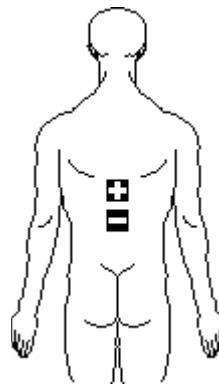
100 LUMBALGIA (LOW BACK PAIN)

Program E-5806
 isoplanar interference 4 kHz
 Therapy parameters current: special interference
 type: isoplanar
 cc/cv mode: cc
 polarity: positive
 carrier frequency: 4000 Hz
 AMF: 100 Hz
 spectrum: 10 Hz
 sweep: continuous
 rise: 6 s
 surge: 0 s
 fall: 6 s
 pause: 0 s
 sweep time: 12 s
 contact check: yes
 Position of electrodes suction electrodes, spatial intersection of circuits, the source of nociception (affected area) is in the current path (from the side to the trunk)
 Length of application 5 - 10 min., step 1 min.
 Frequency of treatments first 3 daily, then every other day
 Number of treatments 6
 Intensity above threshold sensitivity (during the whole application)
 Effect analgesic
 Note Indication in acute stadia, to achieve the analgesic effect.
 (108)

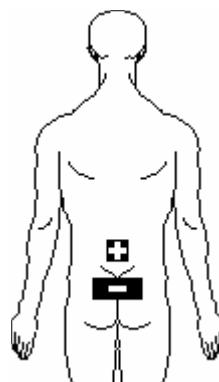


101 LUMBALGIA (LOW BACK PAIN) 2

Program	E-0002 träbert current - EL 3
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 3.: cranial anode 8x12 cm (50 - 100 cm ²) at the lower pectoral spine (Th9-Th12), caudal cathode 8x12 cm at the upper lumbar spine (L1-L3)
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (109)

**102 LUMBALGIA (LOW BACK PAIN) 3**

Program	E-0002 träbert current - EL 4
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	EL 4.: cranial anode 8x12 cm (50 - 100 cm ²) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. (529)



103 LUMBALGIA (LOW BACK PAIN) 4

Program	E-1617
Therapy parameters	TENS 100 μ s current: TENS type: symmetric cc/cv mode: cc polarity: positive pulse: 100 μ s pulse freq.: 200 Hz modulation: random frequency contact check: no electrodes 4x6 cm paravertebral in the lumbar spine area
Position of electrodes	electrodes 4x6 cm paravertebral in the lumbar spine area
Length of application	10 - 20 min., step 2 min.
Frequency of treatments	daily
Number of treatments	6
Intensity	above threshold sensitivity (for 260 Hz) to threshold motor level (for 140 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation, analgesic (110)

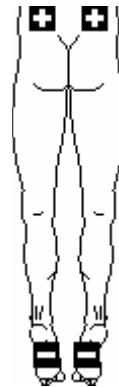
104 LYMPHOEDEMA

Program	E-6044
Therapy parameters	rectangular pulses 2 ms current: rectangular pulses type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 50 Hz modulation: sine surges surge length: 3 s sine surge pause: 6 s contact check: yes
Position of electrodes	clip electrodes 16 mm above the lymphatic vessels on the affected extremity, 5 - 10 cm apart from each other, after 1 minute move the electrodes in the distal direction
Length of application	1 min. each location
Frequency of treatments	2 - 3x per day
Number of treatments	5 - 10 or more, according to the effect
Intensity	at threshold motor level (muscle fasciculation)
Effect	antiedematous
Note	Treat always in the proximodistal direction. Massive lymphoedemas shall be treated by segments, also in the proximodistal direction. (Example: thigh proximodistally, than the calf and the shank, in the end the leg proximodistally). Cathode is in distal direction from anode. It is also possible to use other types of currents, e.g. CP. (112)



105 M. BÜRGER, ACROCYANOSIS, NEURALGIA

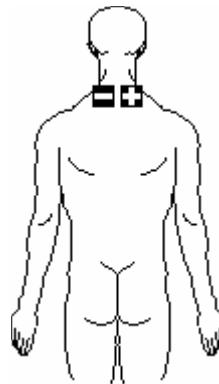
Program	E-0001
Therapy parameters	longitudinal galvanization current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	cathodes (6x8 cm) of individual channels apply on foot soles, both anodes (6x8 cm) side by side above the spine at the level of L3-S1 segments
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	Use protective solutions. Use both channels of the equipment. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (114)

**106 M. OSGOOD - SCHLATTER**

Program	E-1910
Position of electrodes	diodynamic current DF + CP-ISO
Length of application	plate electrodes 6x8 cm transregional above the treated area
Frequency of treatments	DF 1 min. + CP-ISO 5 min., with interruption
Number of treatments	first 3 daily, then every other day
Intensity	6
Effect	above threshold sensitivity for DF, up to threshold motor level for CP-ISO trophic (116)

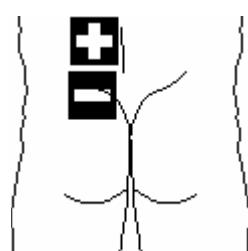
107 M. REYNAUD

Program	E-0001
Therapy parameters	<p>paravertebral resting galvanization current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes</p>
Position of electrodes	<p>anode 4x6 cm at the affected side paravertebrally in the C5-Th1 area, cathode 4x6 cm counterlaterally paravertebrally towards anode</p>
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	<p>Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (118)</p>



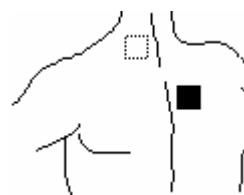
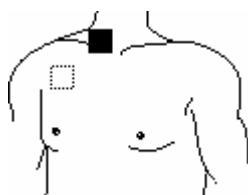
108 M. REYNAUD 2

Program	E-0001
Therapy parameters	<p>segmental resting galvanization current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes</p>
Position of electrodes	<p>anode above and cathode below the outflow of segments which innervate the affected extremity</p>
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	<p>Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (530)</p>



109 M. REYNAUD 3

Program	E-2040
Therapy parameters	isoplanar interference 4 kHz current: special interference type: isoplanar cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes
Position of electrodes	suction cup electrodes; spatial intersection of circuits so that the treated area is in the current path circuit 1: one electrode homolateral above the medial end of the clavicle, the other homolateral, to the paravertebral fornx on the Th1 level circuit 2: one electrode homolateral below the lateral end of the clavicle, the other contralateral, to the paravertebral fornx on the C5 level
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	15
Intensity	above threshold sensitivity (owing to low accommodation of sympathetic fibres do not change intensity during application)
Effect	trophic
Note	Affection of the sympathetic tonus. (119)



110 MUSCULUS ABBREVIATUS

Program	E-6254
Therapy parameters	rectangular pulses 2 ms current: rectangular pulses type: alternating cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 50 Hz modulation: sine surges surge length: 3 s sine surge pause: 6 s contact check: yes
Position of electrodes	plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application	4 - 8 min., step 1 min.
Frequency of treatments	every other day
Number of treatments	5
Intensity	above threshold motor level
Effect	myostimulation and then myorelaxation, trophic
Note	During application slight manual resistance shall be put up to the stimulated muscle. (121)

111 MUSCULUS SCISSUS

Program	E-0944
Therapy parameters	2-pole interference 4 kHz current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 60 Hz spectrum: 40 Hz sweep: continuous rise: 3 s surge: 3 s fall: 3 s pause: 3 s contact check: yes suction cup electrodes d=60 mm so that the affected muscle is in the current path 4 - 8 min., step 1 min. every other day
Number of treatments	5
Intensity	below threshold motor level
Effect	trophic
Note	It is also possible to use plate electrodes. (123)

112 MYALGIA

Program	E-0853
Therapy parameters	4-pole interference 4 kHz current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 50 Hz spectrum: 70 Hz sweep: continuous rise: 2 s surge: 6 s fall: 2 s pause: 2 s contact check: yes suction cup electrodes; spatial intersection of circuits so that the affected muscle is in the current path 8 min. every other day
Number of treatments	6
Intensity	at threshold motor level
Effect	myostimulation, trophic, analgesic
Note	In the poststimulative stage there occurs myorelaxation which in connection with the trophic effect brings analgesic effect. (125)

113 MYALGIA 2

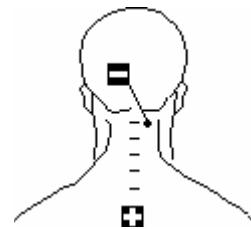
Program E-1663
TENS 100 µs
Therapy parameters current: TENS
type: symmetric
cc/cv mode: cc
polarity: positive
pulse: 100 us
pulse freq.: 100 Hz
modulation: trapezoid surges
rise: 2 s
surge: 3 s
fall: 1 s
pause: 7 s
contact check: no
Position of electrodes electrodes 4x6 cm above the affected muscle
Length of application 10 - 20 min., step 1 min.
Frequency of treatments every other day
Number of treatments 6
Intensity up to threshold motor level
Effect analgesic
(126)

114 NEURALGIA

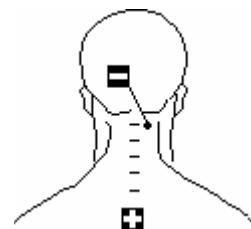
Program E-0001
longitudinal galvanization
Therapy parameters current: galvanic
type: continuous
cc/cv mode: cc
polarity: positive
contact check: yes
Position of electrodes anode 6x8 cm above the affected nerve (peripheral), cathode 8x12 cm above the relevant segment of the spine
Length of application 20 - 40 min., step 5 min.
Frequency of treatments 2 - 3x per week
Number of treatments 12
Intensity max. at threshold sensitivity
Current density max. 0.1 mA/cm²
Effect trophic, analgesic
Note Use protective solutions.
Composition of the protective solutions:
1) anode protective solution:
= natrii chlorati - 5.0 g
= aquae destillatae - ad 1000 ml
2) cathode protective solution:
= natrii chlorati - 5.0 g
= acidi hydrochlorici diluti - 6.5 g
= aquae destillatae - ad 1000 ml
(128)

115 NEURALGIA N. OCCIPITALIS MAJOR

Program E-4815
 Therapy parameters TENS 70 μ s
 current: TENS
 type: asymmetric
 cc/cv mode: cv
 polarity: positive
 pulse: 70 μ s
 pulse freq.: 100 Hz
 modulation: random frequency
 contact check: no
 Position of electrodes active tip cathode (up to the size 1 cm²) above
 the origin of the treated nerve in the suboccipital
 region, indifferent anode 100 cm² at the C/Th
 boundary
 Length of application 15 - 20 min.
 Frequency of treatments daily
 Number of treatments 6
 Intensity above threshold sensitivity
 Effect analgesic
 Note CV mode.
 (138)

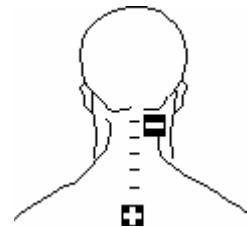
**116 NEURALGIA N. OCCIPITALIS MAJOR 2**

Program E-5735
 Therapy parameters TENS 300 μ s
 current: TENS
 type: asymmetric
 cc/cv mode: cv
 polarity: positive
 pulse: 300 μ s
 pulse freq.: 100 Hz
 modulation: burst
 Number of pulses in burst: 5
 burst freq.: 0.5 Hz
 contact check: no
 Position of electrodes active tip cathode (up to the size 3 mm²) above
 the origin of the treated nerve in the suboccipital
 region, indifferent anode 100 cm² at the C/Th
 boundary
 Length of application 5 min.
 Frequency of treatments daily
 Number of treatments 6
 Intensity from below threshold of pain to threshold of pain
 (the patient has a feeling of pricking by a
 needle)
 Effect analgesic
 Note CV mode.
 (139)

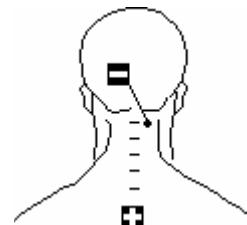


117 NEURALGIA N. OCCIPITALIS MAJOR 3

Program	E-7481 high voltage therapy - surges 2/1/1/3
Therapy parameters	current: HVT type: double cc/cv mode: cv polarity: positive frequency: 200 Hz modulation: trapezoid surges rise: 3 s surge: 3 s fall: 3 s pause: 7 s contact check: no
Position of electrodes	plate electrodes, cathode 4x6 cm above the points of reflex changes in the extensors of the neck, anode 100 cm ² above the C/Th boundary
Length of application	5 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	below threshold motor (the patient may feel fasciculation in the muscle fibres with reflex changes), do not increase during therapy
Effect	analgesic, myorelaxation
Note	CV mode. (140)

**118 NEURALGIA N. OCCIPITALIS MAJOR 4**

Program	E-7418 high voltage therapy - double pulse
Therapy parameters	current: HVT type: double cc/cv mode: cv polarity: positive frequency: 100 Hz modulation: random frequency contact check: no
Position of electrodes	active point cathode (up to the size 1 cm ²) above the points of reflex changes in the extensors of the neck, indifferent anode 100 cm ²
Length of application	2 min. above each reflex change
Frequency of treatments	daily
Number of treatments	3
Intensity	above threshold sensitivity (for 70 Hz) to threshold motor level (for 130 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	analgesic
Note	CV mode. (531)



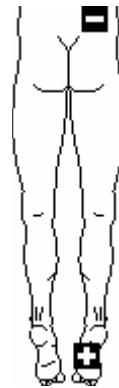
119 NEUROPATHIA (ACROHYPAESTHESIA)

Program	E-0001
Therapy parameters	longitudinal galvanization current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	cathode 4x6 cm at the acrum of the affected extremity (palm or foot sole); anode 4x6 cm paravertebral at the affected side in the C5-Th1 area for upper extremities and L3-S1 area for lower extremities
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (130)



120 NEUROPATHIA (ACROPARAESTHESIA, ACRODYSAESTHESIA)

Program	E-0001 resting galvanization
Therapy parameters	current: galvanic type: continuous cc/cv mode: cc polarity: positive contact check: yes
Position of electrodes	anode 4x6 cm at the acrum of the affected extremity (palm or foot sole); cathode 4x6 cm paravertebral at the affected side in the C5-Th1 area for upper extremities and L3-S1 area for lower extremities (use of anelectrotone - reduction of excitability of the peripheral nerve under the anode)
Length of application	20 - 40 min., step 5 min.
Frequency of treatments	2 - 3x per week
Number of treatments	12
Intensity	max. at threshold sensitivity
Current density	max. 0.1 mA/cm ²
Effect	trophic
Note	Use protective solutions. Composition of the protective solutions: 1) anode protective solution: = natrii chlorati - 5.0 g = natrii hydroxydati - 1.0 g = aquae destillatae - ad 1000 ml 2) cathode protective solution: = natrii chlorati - 5.0 g = acidi hydrochlorici diluti - 6.5 g = aquae destillatae - ad 1000 ml (132)

**121 OBSTIPATIO ATONICA**

Program	E-0861 4-pole interference 4 kHz
Therapy parameters	current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 1 Hz spectrum: 10 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes
Position of electrodes	suction cup electrodes, spatial intersection of circuits so that the abdominal region and the lumbar sympathetic plexi are in the point of circuit intersection
Length of application	15 min.
Frequency of treatments	every other day
Number of treatments	10
Intensity	from above threshold sensitivity to threshold motor level
Effect	trophic, sympathetictonic (134)

122 OBSTIPATIO SPASTICA

Program E-0840
4-pole interference 4 kHz
Therapy parameters current: interference
type: 4-pole
cc/cv mode: cc
polarity: positive
carrier frequency: 4000 Hz
AMF: 100 Hz
spectrum: 0 Hz
sweep: in jumps
1. time: 1 s
2. time: 1 s
contact check: yes
Position of electrodes suction cup electrodes, spatial intersection of circuits so that the abdominal region and the lumbar sympathetic plexi are in the point of circuit intersection
Length of application 15 min.
Frequency of treatments every other day
Number of treatments 10
Intensity above threshold sensitivity
Effect trophic, sympatheticolytic
(136)

123 OTHER SEQUENCES

Program E-1900
diodynamic current DF + CP-ISO
(194)

124 OTHER SEQUENCES 2

Program E-1901
diodynamic current DF + CP-ISO
(195)

125 OTHER SEQUENCES 3

Program E-1902
diodynamic current DF + CP-ISO
(196)

126 OTHER SEQUENCES 4

Program E-1903
diodynamic current DF + CP-ISO
(197)

127 OTHER SEQUENCES 5

Program E-1904
diodynamic current DF + CP-ISO
(198)

128 POST MICRODERMABRASION - CHEEKS

Program E-3550
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 0 Hz
usnd. PIP: 1:1
usnd. application type: semistatic
(562)

129 POST MICRODERMABRASION - OTHER FACIAL AREAS

Program E-3551
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(564)

130 POST OPERATIVE PAIN MANAGEMENT

Program E-1515
TENS 50 µs
Therapy parameters current: TENS
type: asymmetric
cc/cv mode: cc
polarity: positive
pulse: 50 us
pulse freq.: 100 Hz
modulation: random frequency
contact check: no
(595)

131 POST SURG., POST FACE LIFT

Program E-7800
NPHV pulses
Therapy parameters current: NPHV
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
(542)

132 POST SURG., POST LIPOSUCTION ABDOMEN

Program E-7800
NPHV pulses
Therapy parameters current: NPHV
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
(548)

133 POST SURG., POST LIPOSUCTION THIGHS & BUTTOCKS

Program E-7800
NPHV pulses
Therapy parameters current: NPHV
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
(544)

134 POST SURG., POST LIPOSUCTION UPPER ARMS

Program E-7800
NPHV pulses
Therapy parameters current: NPHV
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
(546)

135 POST SURGICAL EDEMA REDUCTION

Program E-0001
galvanization
Therapy parameters current: galvanic
type: continuous
cc/cv mode: cc
polarity: positive
contact check: yes
(589)

136 POTASSIUM IONTOPHORESIS (FOR KELOID SCAR)

Program E-0001
galvanization
Therapy parameters current: galvanic
type: continuous
cc/cv mode: cc
polarity: positive
contact check: yes
(593)

137 PRURIGO, PRURITUS, URTICIA

Program E-0001
calcium iontophoresis
Therapy parameters current: galvanic
type: continuous
cc/cv mode: cc
polarity: positive
contact check: yes
Position of electrodes transregional - anode (active - calcium solution) above the treated area, cathode (indifferent - cathode protective solution) opposite the anode, size of electrodes corresponds to the treated area
Length of application 20-30 min., step 2 min. (When applying dosed iontophoresis the length of application depends on the current dosage. For 1.49 mg Ca²⁺ the current dosage is approximately 300 mA/min.)
Frequency of treatments first two daily, then every other day
Number of treatments 6
Intensity max. at threshold sensitivity
Current density max. 0.1 mA/cm²
Effect trophic
Note anode solution:
= calcii chlorati - 5.5 g
= aquae calcis - ad 1000.0 ml
cathode solution:
= natrii chlorati - 5.0 g
= acidi hydrochlorici diluti - 6.5 g
= aquae destillatae - ad 1000.0 ml
(148)

138 SCAR REV., HYPERTROPHIC / KELOID

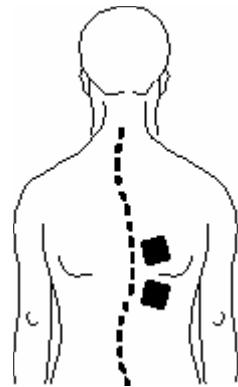
Program E-3562
comb. therapy usnd 3MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 3 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(598)

139 SCAR REVISION - ATROPHIC ACNE SCAR

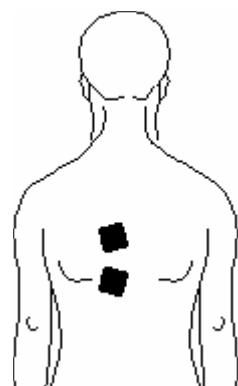
Program E-3560
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 0 Hz
usnd. PIP: 1:1
usnd. application type: semistatic
(597)

140 SCOLIOSIS

Program	E-5815 TENS 150 μ s
Therapy parameters	current: TENS type: symmetric cc/cv mode: cc polarity: positive pulse: 150 μ s pulse freq.: 50 Hz modulation: trapezoid surges rise: 2 s surge: 3 s fall: 1 s pause: 7 s contact check: no
Position of electrodes	plate electrodes up to the size 4x6 cm at the paravertebral muscles in the convexity of the scoliotic curve
Length of application	6 - 25 min., step. 1 min.
Frequency of treatments	daily
Number of treatments	20 or even more
Intensity	above threshold motor level
Effect	myostimulation
Note	Indication: minor idiopathic scolioses at the time of growth acceleration. It is suitable to treat simultaneously the hypertonic muscles in the concavity of the scoliotic curve by myorelaxation procedure. (150)

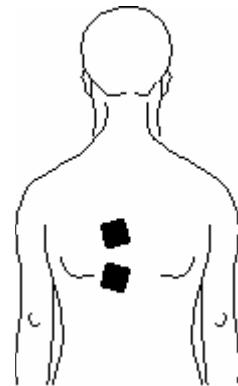
**141 SCOLIOSIS 2**

Program	E-7619 high voltage therapy
Therapy parameters	current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 200 Hz modulation: random frequency contact check: no
Position of electrodes	plate electrodes up to the size 4x6 cm at the paravertebral muscles in the concavity of the scoliotic curve
Length of application	5 - 25 min., step. 1 min.
Frequency of treatments	daily
Number of treatments	20 or more
Intensity	above threshold sensitivity (for 260 Hz) to threshold motor level (for 140 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation
Note	Indication: minor idiopathic scolioses at the time of growth acceleration. It is suitable to stimulate simultaneously the muscles in the convexity of the scoliotic curve. (151)



142 SCOLIOSIS 3

Program	E-2749
Therapy parameters	2-pole interference current: interference 2p type: 2-pole cc/cv mode: cc polarity: positive carrier frequency: 10000 Hz AMF: 150 Hz spectrum: 50 Hz sweep: continuous rise: 1 s surge: 6 s fall: 1 s pause: 6 s contact check: yes
Position of electrodes	plate electrodes up to the size 4x6 cm at the paravertebral muscles in the concavity of the scoliotic curve
Length of application	15 min., step. 1 min.
Frequency of treatments	daily
Number of treatments	20 or more
Intensity	above threshold sensitivity (for 200 Hz) to threshold motor level (for 150 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation
Note	Indication: minor idiopathic scolioses at the time of growth acceleration. It is suitable to stimulate simultaneously the muscles in the convexity of the scoliotic curve. (152)



143 SPASTICITY

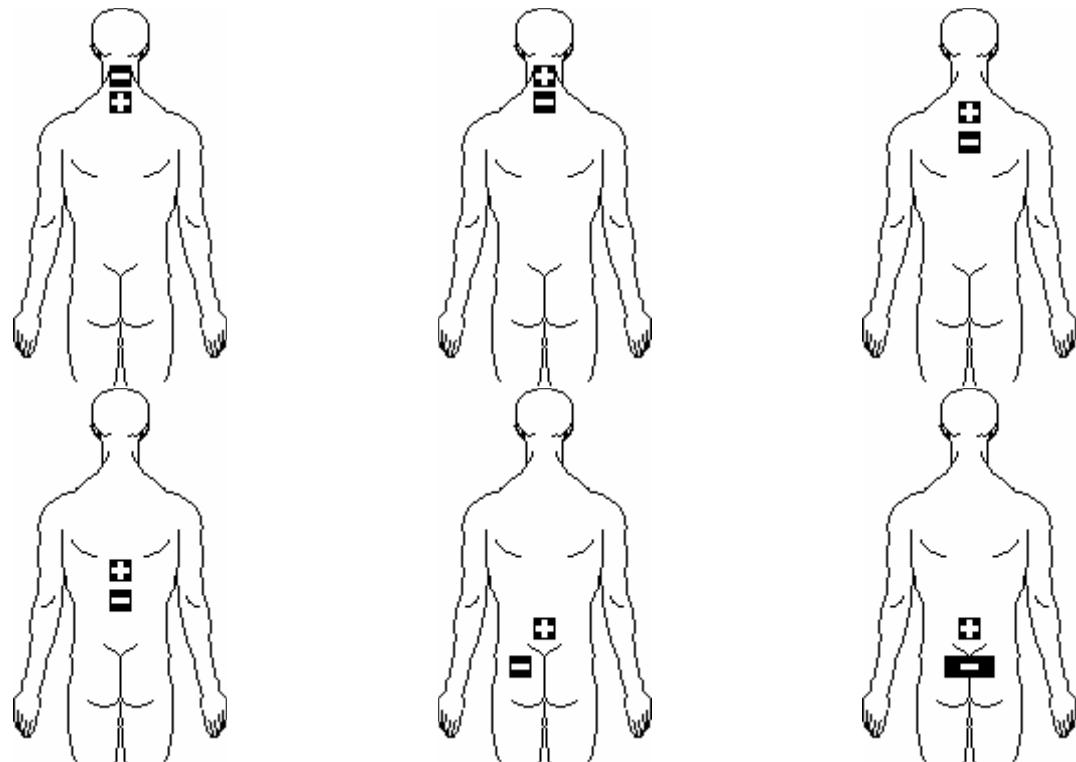
Program	E-5807
Therapy parameters	spastic stimulations current: spastic stimulations cc/cv mode: cc polarity 1: positive polarity 2: positive T1: 0.5 ms delay: 250 ms T2: 0.5 ms pulse frequency: 1 Hz contact check: no
Position of electrodes	1. channel: bipolar above the spastic muscle (muscle group), size of electrodes corresponds to the stimulated muscle (muscle group), cathode (anode - according to individual changes of irritability) above the motor point of the muscle, anode proximal above the muscle belly 2. channel: bipolar above the belly of the antagonist(s) of the spastic muscle (muscle group)
Length of application	3 - 7 min.
Frequency of treatments	2 - 3x per day
Number of treatments	depends on the effect of therapy, 20 applications or even more
Intensity	above threshold motor level in both channels
Effect	myostimulation, trophic
Note	Size of electrodes according to the size of the treated muscles (muscle groups) It is also possible to use the method of monopolar direct stimulation: active electrode (cathode) of the size up to 2 cm ² is placed above the motor point of the muscle, indifferent anode (2-3x larger) is placed at least 3 cm in proximal direction from the cathode. (154)

144 SPECIAL TOPICAL DELIVERY

Program	E-3561
Therapy parameters	comb. therapy usnd 2MHz + NPHV pulses current: NPHV + usnd. type: double cc/cv mode: cv polarity: negative pulse: 5 ms pulse freq.: 50 Hz modulation: random frequency contact check: no usnd. frequency: 2 MHz usnd. intensity: 1.5 W/cm ² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic (596)

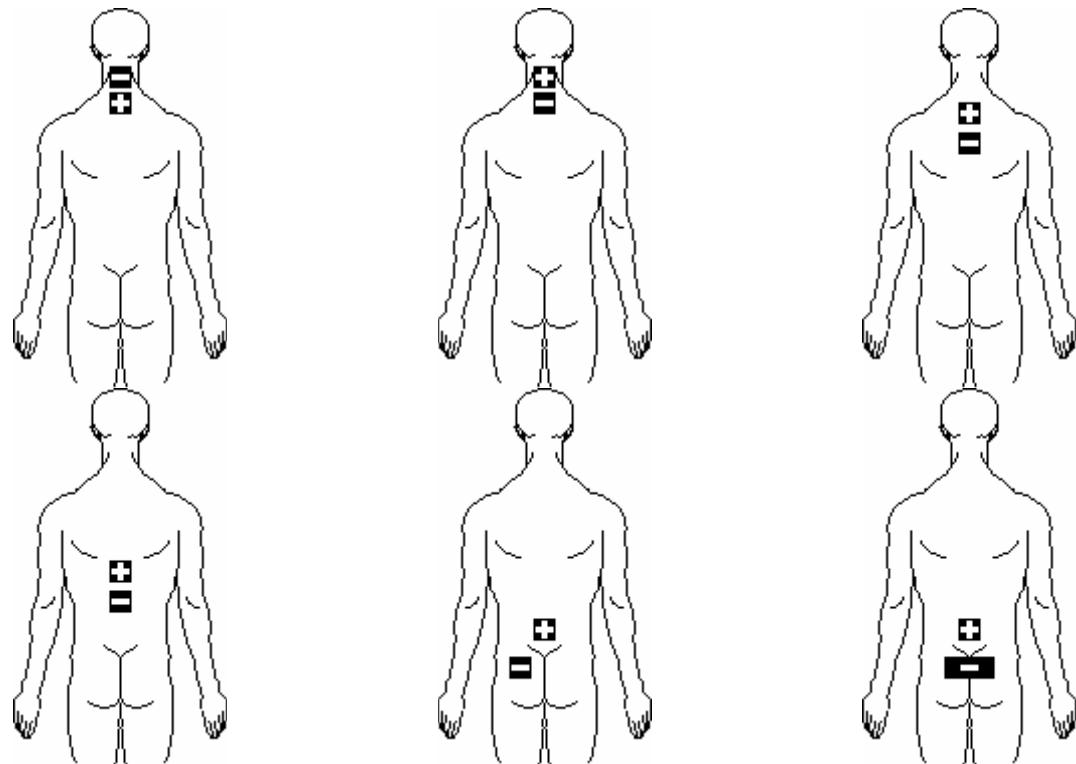
145 SPONDYLARTHROSIS ANCYLOPOETICA

Program	E-0002 träbert current
Therapy parameters	current: Träbert current type: monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz modulation: constant frequency contact check: yes
Position of electrodes	<p>EL 1.: cranial anode 8x12 cm (50 - 100 cm²) at the occiput and the upper cervical spine, caudal cathode 8x12 cm at the lower cervical spine (C5-C7) and C/Th boundary; in case that pain radiates towards the shoulder - cathode cranial</p> <p>EL 2.: cranial anode 8x12 cm (50 - 100 cm²) at the lower cervical spine (C5-Th1), caudal cathode 8x12 cm at the upper pectoral spine (Th3-Th5)</p> <p>EL 3.: cranial anode 8x12 cm (50 - 100 cm²) at the lower pectoral spine (Th9-Th12), caudal cathode 8x12 cm at the upper lumbar spine (L1-L3)</p> <p>EL 4.: cranial anode 8x12 cm (50 - 100 cm²) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum</p>
Length of application	10 - 15 min., step 1 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation)
Effect	analgesic
Note	Owing to early accommodation it is necessary to keep the intensity during the whole application. EL4 a) - lumbago without propagation of pain EL4 b) - lumbago with unilateral radiation of pain to SI joint and lower extremity (156)



146 SPONDYLARTHROSIS ANCYLOPOETICA 2

Program	E-0012 pulsed träbert current
Therapy parameters	current: interrupted pulses type: rectangular monophasic cc/cv mode: cc polarity: positive pulse: 2 ms pulse freq.: 142.86 Hz contact check: yes
Position of electrodes	EL 1.: cranial anode 8x12 cm (50 - 100 cm ²) at the occiput and the upper cervical spine, caudal cathode 8x12 cm at the lower cervical spine (C5-C7) and C/Th boundary; in case that pain radiates towards the shoulder - cathode cranial EL 2.: cranial anode 8x12 cm (50 - 100 cm ²) at the lower cervical spine (C5-Th1), caudal cathode 8x12 cm at the upper pectoral spine (Th3-Th5) EL 3.: cranial anode 8x12 cm (50 - 100 cm ²) at the lower pectoral spine (Th9-Th12), caudal cathode 8x12 cm at the upper lumbar spine (L1-L3) EL 4.: cranial anode 8x12 cm (50 - 100 cm ²) at the upper lumbar spine (L1-L3), caudal cathode 8x12 cm at the sacrum
Length of application	20 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	6
Intensity	below threshold of pain up to the highest endurable level (the patient should feel "vibration" under the electrodes = muscle fasciculation) analgesic
Effect	Owing to early accommodation it is necessary to keep the intensity during the whole application.
Note	Thanks to interruption of intensity during the pulse it is possible to perform longer application without use of protective solutions. EL4 a) - lumbago without propagation of pain EL4 b) - lumbago with unilateral radiation of pain to SI joint and lower extremity (157)



147 TENDOVAGINITIS CHRONICA

Program E-2744
Therapy parameters 2-pole interference 10 kHz
current: interference 2p
type: 2-pole
cc/cv mode: cc
polarity: positive
carrier frequency: 10000 Hz
AMF: 60 Hz
spectrum: 40 Hz
sweep: continuous
rise: 3 s
surge: 3 s
fall: 3 s
pause: 3 s
contact check: yes
Position of electrodes plate electrodes longitudinal above the treated tendon and its peritenon or above the muscle belly and tendon
Length of application 10 - 15 min., step 1 min.
Frequency of treatments first 2 daily, then every other day
Number of treatments 6
Intensity at threshold sensitivity
Effect analgesic, myorelaxation
(174)

148 TENDOVAGINITIS SUBACUTA

Program E-2746
Therapy parameters 2-pole interference 10 kHz
current: interference 2p
type: 2-pole
cc/cv mode: cc
polarity: positive
carrier frequency: 10000 Hz
AMF: 100 Hz
spectrum: 50 Hz
sweep: continuous
rise: 3 s
surge: 3 s
fall: 3 s
pause: 3 s
contact check: yes
Position of electrodes plate electrodes longitudinal above the treated tendon and its peritenon or above the muscle belly and tendon
Length of application 10 - 15 min., step 1 min.
Frequency of treatments first 2 daily, then every other day
Number of treatments 6
Intensity at threshold sensitivity
Effect analgesic, myorelaxation
(172)

149 TONISATIO MUSCULORUM "PHASICUM"

Program E-0790
Therapy parameters
russian stimulation
current: russian stimulation
cc/cv mode: cc
polarity: positive
carrier frequency: 2500 Hz
pulse frequency: 100 Hz
pulse/pause ratio: 1:1
rise: 6 s
surge: 0 s
fall: 6 s
pause: 0 s
contact check: yes
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 3 - 7 min., step 1 min.
Frequency of treatments every other day
Number of treatments 5
Intensity above threshold motor level
Effect myostimulation
(178)

150 TONISATIO MUSCULORUM 'TONICUM'

Program E-0712
Therapy parameters
russian stimulation
current: russian stimulation
cc/cv mode: cc
polarity: positive
carrier frequency: 2500 Hz
pulse frequency: 50 Hz
pulse/pause ratio: 1:1
rise: 1 s
surge: 2 s
fall: 1 s
pause: 12 s
contact check: yes
Position of electrodes plate electrodes 4x6 cm so that the treated muscle is in the current path
Length of application 5 - 10 min., step 1 min.
Frequency of treatments every other day
Number of treatments 6
Intensity above threshold motor level
Effect myostimulation
(176)

151 TRIGGER POINTS - DEEP

Program	E-3515 combined therapy - ultrasound + tens
Therapy parameters	current: TENS + usnd. type: asymmetric cc/cv mode: cv polarity: negative pulse: 100 us pulse freq.: 100 Hz modulation: constant frequency contact check: no usnd. frequency: 1 MHz usnd. intensity: 0.5 W/cm ² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic
Position of electrodes	active - ultrasound head = cathode, indifferent electrode - plate anode 100 cm ² contralateral
Length of application	1 - 2 min. above each trigger point of pain
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	above threshold motor level at the trigger point of pain, above threshold sensitivity out of it
Effect	myorelaxation
Note	CV mode. Usnd. ERA: 1 cm ² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-5814, U-1008. (186)

152 TRIGGER POINTS - DEEP 2

Program	E-3570 combined therapy - ultrasound + 2-pole interference
Therapy parameters	current: interference 2p. + usnd. type: 2-pole cc/cv mode: cv polarity: positive carrier frequency: 10000 Hz AMF: 100 Hz spectrum: 0 Hz sweep: in jumps 1. time: 1 s 2. time: 1 s contact check: yes usnd. frequency: 1 MHz usnd. intensity: 0.5 W/cm ² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic
Position of electrodes	active - ultrasound head, indifferent - plate electrode 100 cm ² contralateral
Length of application	1 - 2 min. above each trigger point of pain
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	above threshold motor level at the trigger point of pain, above threshold sensitivity out of it
Effect	myorelaxation
Note	CV mode. Usnd. ERA: 1 cm ² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-2770, U-1008. (187)

153 TRIGGER POINTS - SUPERFICIAL

Program	E-7416
Therapy parameters	high voltage therapy - random current: HVT type: double cc/cv mode: cv polarity: positive frequency: 50 Hz modulation: random frequency contact check: no
Position of electrodes	active ball electrode in the static mode above the trigger point of pain in the treated muscle, indifferent electrode 100 cm ² contralateral
Length of application	1 - 2 min. above each trigger point of pain
Frequency of treatments	daily
Number of treatments	1 - 4 (according to the effect)
Intensity	above threshold sensitivity (for 35 Hz) to threshold motor level (for 65 Hz) at the beginning of therapy (muscle fasciculation). Do not increase intensity during therapy!
Effect	myorelaxation
Note	CV mode. (180)

154 TRIGGER POINTS - SUPERFICIAL 2

Program	E-7626
Therapy parameters	high voltage therapy current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 50 Hz modulation: constant frequency contact check: no
Position of electrodes	active ball electrode in the static mode above the trigger point of pain in the treated muscle, indifferent electrode 100 cm ² contralateral
Length of application	5 - 7 min.
Frequency of treatments	every other day
Number of treatments	4
Intensity	above threshold motor level at the beginning of therapy; do not increase
Effect	myorelaxation
Note	CV mode. (181)

155 TRIGGER POINTS - SUPERFICIAL 3

Program	E-3514
Therapy parameters	combined therapy - ultrasound + tens current: TENS + usnd. type: symmetric cc/cv mode: cv polarity: negative pulse: 100 us pulse freq.: 100 Hz modulation: constant frequency contact check: no usnd. frequency: 3 MHz usnd. intensity: 0.5 W/cm ² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic active - ultrasound head = cathode, indifferent electrode - plate anode 100 cm ² contralateral
Position of electrodes	1 - 2 min. above each trigger point of pain
Length of application	daily
Frequency of treatments	1 - 4
Number of treatments	above threshold motor level at the trigger point of pain, above threshold sensitivity out of it
Intensity	myorelaxation
Effect	CV mode.
Note	Usnd. ERA: 1 cm ² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-5813, U-1007. (182)

156 TRIGGER POINTS - SUPERFICIAL 4

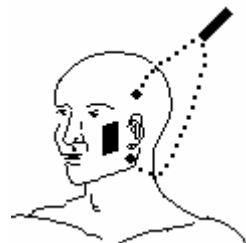
Program	E-1911
Position of electrodes	diodynamic current CP + LP active small cathode (up to 10 cm ²) above the trigger point of pain in the treated muscle, indifferent large anode (100 cm ²) contralateral
Length of application	CP 3 min. + LP 3 min.
Frequency of treatments	first 3 daily, then every other day
Number of treatments	4 - 8 (according to the effect)
Intensity	above threshold motor level for the 50 Hz component of CP current, above threshold sensitivity to threshold motor level for the 50 Hz component of LP current
Effect	myorelaxation, analgesic (183)

157 TRIGGER POINTS - SUPERFICIAL 5

Program	E-0145
Therapy parameters	diodynamic current LP current: diodynamics type: LP cc/cv mode: cc polarity: positive base: 5 % basic frequency: 50 Hz / 100 Hz interruption: no contact check: yes
Position of electrodes	active small cathode (up to 10 cm ²) above the trigger point of pain in the treated muscle, indifferent large anode (100 cm ²) contralateral
Length of application	5 min.
Frequency of treatments	daily
Number of treatments	4 - 8
Intensity	at threshold motor level for the 50 Hz component, above threshold sensitivity for the 100 Hz component
Effect	myorelaxation, analgesic (184)

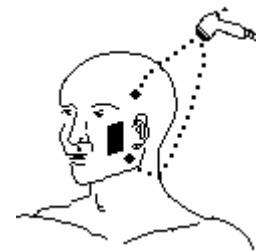
158 TRISMUS

Program	E-7617
Therapy parameters	high voltage therapy current: HVT type: symmetric cc/cv mode: cv polarity: positive frequency: 70 Hz modulation: random frequency contact check: no
Position of electrodes	active point electrode up to 1 cm ² , above the reflex changes in m. temporalis and m. masseter, indifferent electrode 4x6 cm above os zygomaticum
Length of application	1-2 min. above each reflex change
Frequency of treatments	daily
Number of treatments	3
Intensity	above threshold motor level at the point of reflex change, do not increase during therapy
Effect	myostimulation, then myorelaxation
Note	The indifferent electrode should be best self-adhesive. Dynamic application by point electrode in the diagnostic stage, static application in the therapeutic stage. In the therapeutic stage there is intermittent contraction of fibres with reflex change in correlation with randomization of frequency. (189)



159 TRISMUS 2

Program	E-3513
Therapy parameters	combined therapy - ultrasound + tens current: TENS + usnd. type: asymmetric cc/cv mode: cv polarity: negative pulse: 100 us pulse freq.: 100 Hz modulation: constant frequency contact check: no usnd. frequency: 3 MHz usnd. intensity: 0.4 W/cm ² usnd. modulation frequency: 100 Hz usnd. PIP: 1:2 usnd. application type: semistatic the active electrode (cathode) is the ultrasound head - dynamic in the diagnostic mode, semistatic in the therapeutic mode above the reflex change in m. masseter, indifferent plate electrode 4x6 cm at the cheek at the same side 1 min. above each reflex change
Position of electrodes	
Length of application	1 min. above each reflex change
Frequency of treatments	daily
Number of treatments	3
Intensity	above threshold sensitivity out of the point of reflex change, threshold motor at the point of reflex change
Effect	myorelaxation
Note	The indifferent electrode should be best self-adhesive. CV mode. Usnd. ERA: 1 cm ² When using 2 interconnected single BTL devices (electrotherapy, ultrasound) use programs E-5814, U-1006. (190)

**160 VESICA URINARIA ATONICA**

Program	E-0862
Therapy parameters	4-pole interference 4 kHz current: interference type: 4-pole cc/cv mode: cc polarity: positive carrier frequency: 4000 Hz AMF: 1 Hz spectrum: 99 Hz sweep: continuous rise: 6 s surge: 0 s fall: 6 s pause: 0 s contact check: yes
Position of electrodes	plate electrodes 100 cm ² so that the current circuits spatially intersect in the lumbar area (symmetric right and left above the symphysis and at the lower lumbar area)
Length of application	10 min.
Frequency of treatments	daily
Number of treatments	10 - 20
Intensity	above threshold sensitivity
Effect	myostimulation, trophic (192)

161 WRINKLE REDUCTION - PERIORAL

Program E-3558
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(574)

162 WRINKLE REDUCTION - PERIORBITAL

Program E-3557
comb. therapy usnd 2MHz + NPHV pulses
Therapy parameters current: NPHV + usnd.
type: double
cc/cv mode: cv
polarity: negative
pulse: 5 ms
pulse freq.: 50 Hz
modulation: random frequency
contact check: no
usnd. frequency: 2 MHz
usnd. intensity: 1.5 W/cm²
usnd. modulation frequency: 100 Hz
usnd. PIP: 1:2
usnd. application type: semistatic
(572)